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1868-1914



GARDEN AND FARM SUPPLIES,

SEEDS

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RAFFIA, REED AND SWEET GRASS.

			RE	ED.			RAFFIA.									
No.	0 Reedper lb, \$1.50 per oz.				15c	Naturalpe	25 p	.25 per oz.								
	1	"		"	1.00	- "	10c	-		•						
	2	"		"	.85	"	10c	Colored-in 8 shades	"	.65	6.6	10c				
	3	"		"	.75	"	10c									
	4	"		"	.75	4.4	10c	SWEET GRASS	"	\$2.50	6.6	20c				
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USEFUL TABLES.

14 " 1½ ft . 19,360 8 " 8 ft . 680 " 9 ft . 537 Asparagus about 500 Kale . about 2,000	Of Pla	nts per Ac	re at the	follo	wing dis	stances	Number of Plants Prod	uced from 1 oz. of Seed.	
" 1 ft . 21,780 9 " 9 ft . 537 Asparagus about 500 Kale . about 2,00 " 2 ft . 10,898 10 " 10 ft . 435 Broccoli . " 2,000 Leek . " 1,00 " 2 ft . 14,520 15 " 15 ft . 193 Cabbage . " 3,000 Lettuce . " 3,00 " 2 ft . 7,260 18 " 18 ft . 134 Celery . " 4,000 Pepper . " 2,00 " 3 ft . 4,840 20 " 20 ft . 103 Celery . " 4,000 Sage . " 1,00 " 3 ft . 4,840 20 " 20 ft . 103 Celery . " 4,000 Celer						ft.		Plants	Plants
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SEED SOWN PER ACRE.

Seed Sown per Acre. Wt, per bu	Seed Sown per Acre. Wt. per bu	Seed Sown per Acre. Wt. per bu
		Dwarf Essex Rape, 5 lbs
Timothy, ¼ to ½ bu 45 lbs	Millet, ½ to ¾ bu 50 lbs	• ,
Lucerne, or Alfalfa, 30 lbs 60 lbs	Hungarian, ½ to ¾ bu 48 lbs	Peas, 2½ bu 60 lbs
Clover, Red, 10 to 15 lbs . 60 lbs	Wheat, 2 bu 60 lbs	Beans, 1 bu 62 lbs
Clover, Alsike, 5 to 10 lbs 60 lbs	Buckwheat, 3/4 to 1 bu 48 to 50 lbs	Pumpkin Seed, 2 qt 27 lbs
Clover, Crimson, 15 lbs . 60 lbs	Rye, 1 to 2 bu 56 lbs	Turnip, 1 lb
Cow Peas, 60 lbs 60 lbs	Oats, 2 to 3 bu 32 lbs	Spinach, 8 lbs 42 lbs
Red Top, 2 to 21/2 bu 14 lbs	Oats, Winter, 13/4 bu 32 lbs	Beet, 4 to 6 lbs
Blue Grass, 2 bu 14 lbs	Barley, 2 bu 48 lbs	Squash, 2½ lbs per acre .
Orchard Grass, 2 bu 14 lbs	Flax Seed, 1 bu 56 lbs	Parsnips, 3 to 4 lbs
Yellow Sand Clover, 15 lbs 60 lbs	Corn, ¼ bu 56 to 60 lbs	Cabbage, ¼ lb
White Clover, 6 to 10 lbs . 60 lbs	Potatoes, 6 bu 62 lbs	Carrot, 2½ to 3 lbs 20 lbs
Sweet Vernal, 1 to 11/2 bu 11 lbs	Sweet Corn, 1/4 bu . about 45 lbs	Onion, 5 to 6 lbs 56 lbs

NON-WARRANTY.—F. H. Ebeling gives no Warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants he sends out, and he will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

YOUR SUCCESS HAS MADE MY SUCCESS

The one thing for which I have worked hardest for 45 years and which I have won and held, is the confidence of you Central New York people.

Far ahead of my cash register and bank account in importance has been placed the satisfaction and the success of you who have patronized me in buying seeds and the most practical supplies for your farm, garden, greenhouse, lawn, dairy or poultry yard.

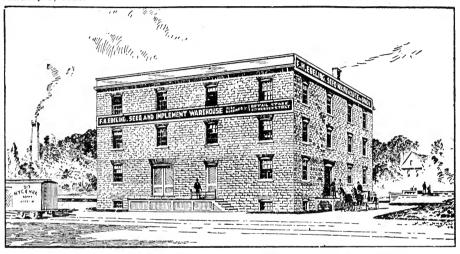
Your patronage, co-operation and kind words in my behalf to your friends and neighbors is appreciated much more than I can tell you. The only return that I have been able to give you is the best products that my money will buy. If it's seeds or bulbs that we import or contract for you, you can feel confident that they are pedigreed varieties best adapted for this climate.

Thanking you for this opportunity and hoping that this my latest Catalog and Seed Book will help you make 1914 more prosperous, I remain

Very truly yours.

January 1, 1914.

F. H. EBELING.



F. H. EBELING'S SEED AND IMPLEMENT WAREHOUSE, 538 and 540 Canal St. RETAIL STORE, 217 Warren St.

	INDEX '	TO SELECT	FLOWER	SEEDS.	
NAME PAGE	Baptisia 37	Coreopsis 38	Gloxinia 40	Maurandia 41	Ricinus 42
Abobra 36	Bartonia 37	Cosmos 38	Godetia 40	Mesembryan-	Salpiglossis 42
Abronia 36	Begonias 37	Cucurbita 39	Gourds 40	themum 41	
Abutilon 36	Bellis 37	Cyclamen 39	Grasses 40	Mignonette 41	Scabiosa 42
Acacia 36	Brachycome 37	Cyperus 39	Gypsophila 40	Mimosa 41	Scarlet Run-
Aconitum 36	Calceolaria 37	Cypress Vine 39	Helianthus 40	Mimulus 41	ner Beans 42
Acroclinium 36	Calendula 37	Dahlia 39	Helichrysum 40	Miribilis 41	Schizanthus 42
Adlumia 36	Calliopsis 37	Datura 39	Heliotrope 40	Momordica 41	Smilax 42
Adonis 36	Campanula 37	Delphinium 39	Hibiscus 40	Morning	Snapdragon 42
Ageratum 36	Canary Bird	Dianthus or	Hollyhocks 40	Glory 41	Solanum 42
Agrostemma 36	Vine 37	pinks 39	Honestv 40	Musa Ensete 41	
Alyssum 36	Candy Tuft 37	Didiscus 39	Humulus 40	Musk Plant 41	
Amaranthus 36	Canna 38	Digitalis 39	Impatiens 40	Myosotis 41	
Ammobium 36	Canterbury	Dolichos 39	Ipomoea 40	Nasturtiums 41	
Ampelopsis 36	Bell 88	Dracaena 39	Job's Tears 40	Nicotiana 41	
Anemone 36	Carnation 38	Echinocystis 39	Kenilworth	Nigella 41	
Antirrhinum 36	Castor Oil	English Daisy 39		Orna.Grasses 41	iam 43
Aquilegia 36	Bean 38	Erigeron 39		Pansies 41	Tagetes 43
Arabis 36	Celosia or	Eryngium 39	Lantana 40	Passiflora 42	
Arctotis 36	Cristata 38	Eschscholt-	Larkspurs 40	Pentstemon 42	
Aristolochia	Centaurea 38	zia 39	Lathyrus 40	Perilla 42	
Sipho 36	C h r ysanthe-	Euphorbia 40	Lavender 40	Petunia 42	
Armeria 36	mums 38	Forget-me-	Linaria 40	Phlox Drum-	Verbenas 43
Asparague 36	Cineraria 38	not 40	Linum 40	mondi 42	
Asperula	Clematis 38	Four O'clock 40	Lobelia 40	Pinks 42	
Odorata 36	Clianthus 38	Fox Glove 40	Lophosper-	Poppies 42	
	Cobaea 38	Fuchsia 40	mum 40	I OI build out	
Bachelor's	Coccinea In-	Gaillardia 40	Lupinus 40		
Buttons 37	dica 38		Lychnis 40		
Balloon Vine 37	Coleus 38	Globe Amar	Marigold 40		
Balsams 37	Convolvulus 38	anth 40	Matricaria 41	Rhodanthe 42	Zinnias 43

CONTENTS

VEGETABLES, O		S, PLANTS, BULI	BS, ROOTS, ETC.
	Name Page	Name Page	Name Page
	Clover 13	Lucie's Favorite Dent	Rye 12
Alske or Hybrid Clover 13 Asparagus 15		Corn 6 Mammoth or Pea Vine 13	Sage 32 Salsify 32
Austrian Two-Rowed	Early Medium Green	Meadow Fescue 13	Seedolin 35
Barley 9	Soy Beans	Meadow Foxtail 13	Sheep Fescue 13
Barley 9 Beans 15, 16	Ebeling's Blood Red Corn		Soy Beans 8 Special Grasses 12, 13
Beardless Barley 9	Egg Plant 2	Muskmelon 25, 26	Spinach 32, 33
	Endive 2 English Rye Grass 1	Mustard 26 Nasturtinin 27	Spring Plants 45 Spring Rye 12
Borccole 24	Ensilage Corn 5,	Outs 3, 4	Spring Vetch 11
	Eureka Ensilage Corn	Okra 27	Squash 33
	Field Corn Field Seed 12. 1	3 Oniou 27, 28 3 Orchard Grass 12 4 Parelon 28	State Grown Two-Row Barley 9
Bulbs and Roots 45	Oatine	1 41510) 40	Strawberry Plants 45
Cabbage 14, 19 Canada Cluster Oats 4			Sweepstakes Pedigree Ensilage Corn 6
			Sweet Corn 22, 23
Canliflower 21	Herbs 3	Plants, Bulbs, Roots 45	Sweet Grass opp. 1
Celery 21 Chervil 23	Ideal Sugar Mangel Bects		Sweet Herbs 34 Swiss Chard 33
Celeriac 22	Iowa Gold Mine Ensi-	Radish 31, 32	Tall Meadow Oat 13
Chicory 22	lage Corn	Raffia opp. 1	Timothy 12
Clover Seed 13 Corn 22, 23	Italian Rye Grass 1 Kale 2	2 Red Medinm Clover 13 4 Red Top or Herd Grass 12	Tomatoes 34 Turnips 35
Corn Salad 23	Kentucky Blue Grass 1	Reed opp. 1	Watermelon 26
	Kohl Rabi 2 Lawn Seeds 12, 1		White Dutch Clover 13
Crested Dogstail 12	Leek 12, 1	Rough-Stalked Meadow	Winnipeg Cluster Oats 3 Winter Vetch 11
Crimson or Italian	Lettuce 2		Wood Meadow Grass 13
IMPLEMENTS, I	FERTILIZERS, M	ISCELLANEOUS	SUPPLIES, ETC.
	Egg Cases, Humpty-		Roofing 89
Aerator 59 Alfalfa, Mealed 88	Dumpty S Elevator Potato Digger 7		Root Cutters 7, 77 Roup Cure, Ebeling's 87
	Ebeling's Guaranteed	54, 55, 60	Roup Cure 85, 86
Arscnate of Lead 54, 55	Roup Cure 8	7 Insecticides 54, 55, 60	Salt Cakes and Frames 46
		For Age Tools 46 to 52 Keystone Weeder 68	
	Exterminators 54, 6) Lambert's Lice Killer 89	Seed Drills 47, 48, 49, 63
			S Seeds 12 to 43 4 Seed Sowers 63
		6 Lawn Edger 4 3 Lawn Mowers 44	Seeders, Wheelbarrow,
Bone Meal 88	3 Farmers' Drill (9 Lawn Rollers 4-	Seeders, Wheelbarrow, Crank, Fiddle 63
Books opp. 1 Bottle Filler 59	Farmers' Sanitary Chem- ical Closet 8	Laying Food 88 1 Leg Bands 87	S Separators 73 7 Seven Tools in One 78
Bottle Washing Outfit.	Farmogerm	9 Leveler 68	S Settees 45
Champion 59 Brood Coops 83, 8-	Feed Cutter 78, 74 Fencing 78, 75 Fred Fencing 78, 75 Field Fencing 78, 75 Fir Tree Oil Soap	4 Lice Paint 85	5 Sheep Dip 54 3 Sheep Fencing 78, 79
Brooders 83, 8	Fertilizer Distributors	9 Lime-Sulphur 5-	Sheep Fencing 78, 79
Bug Death 54, 53	Field Fencing 78, 7	9 Lucies' Favorite Dent	Sickle Grinder 63
			3 Silos 69 7 Sigle Wheel Hoe 47, 48, 49
Caponizing Instruments S	Flower Seeds 36 to 4	3 Manure Carriers 6:	1 Slip 80
Carbolinium 54, 5	5 Flower Tubs		2 Slug Shot 55
Carborundum Scythe Stones 70			Song Restorer 89 Spray Pumps 56, 57
Carriers, Hay, Ensilage,	Fumigators 5	4 Milk Bottles 63	2 Sprayers 51, 56, 57
Manure, Feed, Litter	Garden Barrows 8		2 Stable Barrows 80 2 Stable Fixtures 61
Cattle Fencing 78, 7			9 Stalls 61
Cattle Labels 7	7 Gasoline Engines '	6 Milk Fever Outfit 6	2 Steel Fence Posts 78, 79
			2 Stock Labels 77 2 Stone Boat Heads 80
Chicken Coops 8	3 Glazing Points	6 Muzzles 6	2 Stone Boat Slip 80
Churns 6	2 Governor Pulley, Ran-		9 Sulpho-Tobaclo Soap 55 8 Tedders 70
Clamp and Drill 6 Clippers 6		8 Nest Eggs 8 0 Nico-Fume 5	4 Thermometers 89
Clod Crusher 6	8 Grain Grader, Cleaner	Osborne Machines	Tilling Plow 66
Combination Tool 7 Cookers 7		3 70, 71, 7 5 Oyster Shells 8	6 Tobacco Powder 54 9 Tobacco Stems 54
Corn Marker 6	9 Grit	9 Paris Green 5	4 Transplanter 69
	5 Grit and Shell Box	9 Persian Insect Powder 5	4 Tree Pruners 46 9 Trellises 45
Cream Separators 5 Cultivators		7 Pigeon Supplies 8 8 Planters 50, 6	5 Troughs 80
48, 50, 52, 53, 6	7 Hatchers	4 Plows 64, 65, 6	6 Urns 45
		70 Posts 78, 7 70 Potato Digger 7	9 Vases 45 5 Vermin Exterminator 60
Cut Worm Killer . 6		O Potato Planters 5	0 Vegetable Seeds 15 to 35
			9 Wall Forntains 88 7 Wagons 71
Death to Bugs 5 Deep Tilling Plow 6			8 Watering Basins 61
Developing Food 8	8 Hellebore	4 Poultry Supplies 82 to 8	9 Wash Sink 59
Dirt Barrows 8 Disk Harrow 6		69 Prout Hoe 6 79 Prnners 46, 6	9 Watering Basins 61 9 Weather Vane 85
Ditching Plow 6	5 Hog Labels	7 Pulverizing Harrow 6	8 Weeders 46, 68
Double Wheel Hoe 4	8 Hog Ringers		0 Weedicide 54 1 Whale Oil Soap and
Drills 47, 48, 49, 72, 7 Drinking Fonts 8			7 Tobacco 54, 55
Dry Food Hopper 8	7 Hoppers	4 Pyrox 5	4 Wheelbarrows Seeders 63
Dry Mash or Chicken Chowder 8	Horse Hoe 8 Horse Shoes, Never-		0 Wheel Hoes 47, 48, 49
Dry Powder Duster 5			3 Wheel Plows 48, 49
		3 Rollers 10, 6	8 Window Boxes 45

cuse or the East. A great many farmers have had trouble with their annual yield of oats.

WINNIPEG Cluster Oats

THE BIG HEAVY-YIELDING HARDY VARIETY FROM THE GREAT NORTHWEST

These oats have captivated the graingrowing farmer in every part of the country. Everywhere they have proved themselves a big success and have been looked upon as the wonder of the oat world.

This new variety was originated and grown in the Alberta country of the Canadian Northwest and are by far the handsomest, most profitable and hardy sort ever offered in Syra-

The most common reason is that they continue to sow old run-out run-down sorts year after year. The fact is there is no cereal crop grown that runs out and degenerates as quickly as oats. The remedy is our Winnipeg Cluster Oats.

KERNELS MUCH FATTER AND WEIGH 46 tbs. TO BUSHEL

They yield from 75 to 125 bushels to the acre. Have big, strong, stiff straws that stand up well on any ground. Their spangled heads are

12 to 18 inches long and ripen early.

As these oats come from a colder climate they form the best possible seed oats for our New York State farmers. You know that the Alberta country is free from weeds and foul matter so these oats are perfectly clean. They compare with the majority of seed oats in the same way as a blooded Holstein compares with a common scrub animal.

We can heartily recommend these oats to all of our customers. Out of the many thousands of bushels we have put up we have never had a single complaint. They would be cheap if they cost many times what

the average oats cost.

GIVE THESE OATS A TRY-OUT

They are certain to produce extraordinary results and you can sell at a good price to your neighbors next season. We suggest that you order your seeds early-before the rush and before the stocks are broken.

Mr. Danforth, R. F. D., Clay, N. Y., sowed seven acres of our celebrated oats and threshed 400 heaping bushels, which are equal to about 500 bushels by weight. This is a splendid showing for the harvest season of 1913.

His neighbors sowed ordinary oats, and threshed less than one-third as much as Mr. Danforth. This shows the value of high-class Pedigree Seed Oats.

We could multiply these testimonials, but this is as good as if we had fifty more.

These oats represent a good example of our policy of providing only the best of everything for our cus-

PRICE-Per single bushel, \$2.00; per 1/2 bushel, \$1.25; per ¼ bushel, 75c. Special prices in large quantities.



Winnipeg Cluster Oats

F. H. EBELING, SEEDS AND HARDWARE DENMARK CLUSTER SEED OATS.



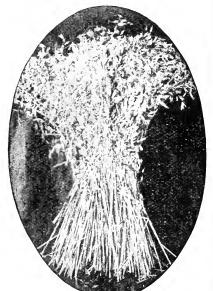
One of the best countries known for producing hardy seed grain is Denmark and one of the most remarkable oats produced is the Denmark Cluster Seed Oats

that we offer you.

1

This is not only one of the best oats for all ordinary purposes, but this practical variety is especially well adapted for the manufacture of oatmeal-because of this variety's very large plump white kernel and remarkably thin hull. The straw is very strong and stiff and stands up well under the stress of weather. Oats yield over 40 lbs. per bu. The height of straw is about 40 in. In Finland where the summers are short these oats have an enormous demand because of their earliness. We have imported only a small quantity of these oats from our grower in Denmark, so do not be disappointed if the supply is exhausted early. We would like as many as possible of our customers to test these oats in small quantities. We give them to you at the special price of \$2.50 per bu.

CLUSTER OATS. CANADA



The straw is from 4 to 5 feet tall and a good many of the heads from 8 to 11 inches. They stand up extra well and the meats are plump. Weighs 40 lbs. to bu. Several years ago we first imported this wonderful variety and it is wonderful variety and it has proved itself the best all-around sort we have intro-duced in recent years. We place them at

the head of all oats when it comes to the genuine money value.

One of the features that enables this one of the features that enables this plant to resist drought better than any other variety is its extraordinary root development. The straw has the power to withstand lodging because it is very coarse and stiff. This last year wasn't a very favorable one for oats, yet our customers' crops of Canadian Cluster were the proceed as werel. Price \$150 ner nearly as good as usual. Price \$1.50 per bushel.

LITTLE GIANT EDGER For Trimming Sod and Trenching Along Sidewalk or Curbing.



Can be adjusted to cut required depth by loosening front thumb screw and pushing blade either up or down. This machine is guaranteed to do more work in a given time than two men can do by the common method of lining and cutting out with spade or shovel. It cuts a smooth even trench and leaves the sod and dirt on the walk where it can be swept up and easily removed with a shovel.

All parts are interchangeable and the manufacturer will replace free of charge any defective part. Extra width knives furnished for 35 cents part. additional. Price \$5.00.

EUREKA ENSILAGE CORN



This Field of Eureka Ensilage Corn and Soy Beans Was Grown on the "Shelter Valley" Farm." R. M. Stone & Son, Marcellus, N. Y.

This Wonderful Variety of Ensilage Corn was originated and grown under special supervision on the bottom lands of Virginia. It is especially famous for abundant leaves and extreme height. Some of you will remember having seen this variety at our State Fair exhibit three years ago. The corn measured 19 ft. in height.

This season we have been fortunate in securing another carload of this wonderful corn,

As it is grown beyond the frost line it insures a perfect seed stock, as our short season does not allow it to mature and our Northern soil produces an extremely heavy growth of stalks and leaves, which makes it especially valuable ensilage and nearly double in quantity.

Bear in mind that this is the genuine Eureka, not the common Southern horse-tooth variety—and remember that our stock will be exhausted early.

PRICE \$2.75 PER BUSHEL

WHAT SOME OF OUR CUSTOMERS SAY

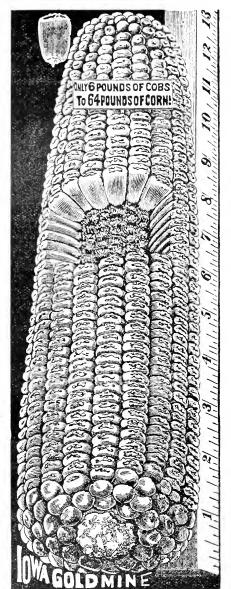
Produces a wonderful growth of stalks, the tallest, most leafy and best for ensilage I have ever grown.—Isaac H. Broadhurst, Marcellus, N. Y.

We purchased one peck of Eureka ensilae corn from you last year and it grew 24 tons. Some stalks were 18 ft. in height.—Seeber Bros., Hastings, N. Y.

Three acres averaged 14 ft. in height.-F. E. Streeter, Hamilton, N. Y.

Made a tremendous crop.-J. Grant Morse, Laurel Farm, Hamilton, N. Y.

Had two acres of Eureka corn and put in about 40 tons.—W. B. Sanborn, Hamilton, N. Y.



IOWA GOLD MINE ENSILAGE CORN.

The Deepest Grained, Purest Yellow Corn Ever Grown. Every Year This Corn Puts Thousands of Good Gold Dollars in the Pockets of Our Customers.

Every year you have read in our catalog the extraordinary things we have had to say about our Iowa Gold Mine Corn. Every year our confidence in it has increased, and our only wish is that we knew how to make a stronger plea for this, the king in the corn family.

We honestly believe it is the biggest market producer and money maker on the Amer-

ican continent.

This real wonderful variety of corn grows 14 feet high and it matures with your field varieties. Of all ensilage corn known to varieties. Of all ensilage corn known to modern seedmen this has the largest kernel and smallest cob. You will find the grain value to be almost double of the Leaming or Pride of the North because of their immense cobs and small kernels. Iowa Gold Mine Ensilage Corn possesses every desirable feature of the Leaming and Pride of the North and in addition the great grain producing quality we have told you about.

We earnestly advise you, the reader, to sow this corn this year and we know that you will be as enthusiastic as we are about this world-winning corn. Price \$2.50 Bu. Shelled.

LUCIE'S FAVORITE DENT FIELD CORN

This variety combines the best in the Western Yellow Dent and Eastern (White) Flint of which it is a hybrid. It combines all the good points in the family stock in that its stalks are tall, slender with many wide leaves. The ear has a long small cob filled with large broad dented kernels flattened out to the size of your finger pail.

to the size of your finger nail.

This corn was grown in Onondaga County and is thoroughly acclimated. You can plant it as late as May 25th and it will ripen with

It as late as May 25th and it will lipen with ordinary seed Flint sorts. You will find Lucie's Favorite to be a strong growing bright yellow dented corn, which breaks off very easy in husking. It's which breaks on very easy in mushing. It is the heaviest yielder you ever saw, the stalks often have two or three ears. It's extra good for fodder as the leaves are very broad and long. Like all hybrid of this class there are from eight to twelve rows to the ear. We have seen a bushel shelled that weighed 34½ pounds and equal to 69 pounds of shelled corn to 2 bushels of ears. Price \$2.50 bushel.

CORN OR STALKS?

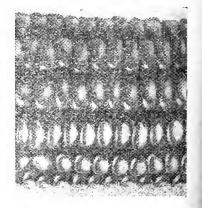
If you want corn of a very prolific, extra early maturing variety you should plant

EBELING'S BLOOD RED CORN

It's the earliest dent corn—as early as the Pride of the North or the Flint varieties. It is not handsome in color but it is one of the most nutritious varieties grown. The stock like it and one bushel will go as far as 1½ bushel of either white or yellow dent varieties. Price \$3.00 per bushel.

Sweepstakes Pedigree Ensilage Corn

This wonderful prolific corn during the season of This wonderful prolific corn during the season of 1913 has outdone its record for past ten years in the hands of the originators. Its resistance to drouth, wonderful vigor, productiveness and high feeding value as proven by test during the year makes it as its name implies, "Sweepstakes over all." Grows 12 to 14 feet. 240 bushels of ears per acre in 1913. As a field or Ensilage corn it is first. Our seed is direct from the growers. We are the exclusive distributors for Syracuse, Price \$2.50 per bushel, 56 lbs. shelled or on cob of 70 lbs. cuse. Pr of 70 lbs.





The above illustration was made from an actual photograph of a field of IDEAL SUGAR MANGEL BEETS grown on the Willowdale Farm, owned by Charles B. Day, of Skaneateles, N. Y.

IDEAL SUGAR MANGEL

Our illustration shown above faithfully indicates the shape and style of this Beet. It is a perfect Chunk or Boot-leg type of a beet, which stands for early harvesting, especially in hard soils, as it grows fully two-thirds above the ground. This new and original Mangel Seed is imported from Germany, and can be secured only from one grower who has brought it to its present perfection. In trial ground and laboratory test of over thirty varieties, the IDEAL SUGAR MANGEL has proven superior in each of the following points:

—It contains the greatest amount of dry sub-

stance.

It contains the greatest amount of sugar, which means feeding value.

-This Mangel grows high above ground.
-It's easiest of all to harvest these Mangels.

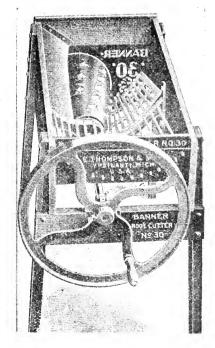
- -Under favorable conditions they sometimes
- weigh thirty pounds.
 Size, quality and yield are three important factors that no farmer can afford to overlook. —Price, **\$1.00** per pound.

NEW BANNER "30" ROOT CUTTER

Just a glance will show you the large capacity of hopper. It's 39 in. long, 18 in. wide and 18 in. deep at the lower or cutting end. The long drum has 30 knives attached. Note the graduated slant of the inside hopper. The dirt escapes without mixing with the feed cut because of the open bottom with iron rods and open cutting grate. With this machine mangels, sugar beets, turnips, carrots and other roots that are fed to stock are left in the best possible shape for feeding.

Two Bushels per Minute Can't Crush the Feed

At 60 revolutions the knives hit and cut the roots 1,800 times. The cut feed is left in long half round slices. These features have made the Banner Root Cutter the most popular machine for the last 20 years. Price \$16.50.



Nov. 25th, 1912. Mr. F. H. Ebeling, Syracuse, N. Y. Dear Sir:

The Early Medium Green Soy Beans have proven to be all that I expected and more, I plan even planted a large field in drills and cultivated them the the These same as corn. produced a fine crop, which were harvested which were narrand and stacked up the and stacked These same as Beans. These are still out in the field, where they have been left to cure and dry for seed purposes. I shall use the straw for feeding, which we consider as valuable as hay.

A large quantity of the Early Medium Green Soy Beans was planted with my En-silage Corn and har-vested with it and put in the silo. I consider Soy Beans a valuable addition to silage as it produces а higher grade than can be produced in any other

way.
I would recommend these Beans to all dairymen for their money value in in-creasing the flow of milk and keeping stock in fine, healthy condition. Yours very truly. CHARLES M. CROUSE

EARLY MEDIUM GREEN SOY BEANS



The above is a photograph of a field of EARLY MEDIUM GREEN SOY BEANS,

grown on "The David Harum Farm," Homer, N. Y., owned by Mr. Charles M. Crouse of this city.

USEFULNESS OF THE EARLY MEDIUM GREEN SOY BEANS.—Soy Beans have a higher protein content than oil meal. Hay from them has a higher protein content than Alfalfa. The green fodder contains a higher protein content than either alsike or medium red clover. Add to this the fact that it is easily possible to secure two or three, or occasionally four to five tons of dry hay per acre; that from twenty to thirty bushels of seed per acre are frequently reported; that the plant is a legume and adds fertility to the soil fully as rapidly as the clovers or other legumes; that it will grow on soil too poor or acid for the easy success of Alfalfa; and you have a splendid combination, certainly qualities that are hard to excel with any of our cultivated crops.

No plant has a more useful range of possibilities than the Soy Bean. When one stops to think of the great feeding value of the grain, of the entire plant's being very valuable for forage, of its being a legume and a heavy gatherer of nitrogen to the soil, not difficult to grow or exacting as to the kind of soil it requires, we must realize that it occupies a position unique among all our crops. Not only is the grain as nourishing as oil meal, but it is as greedily eaten as corn and as easily digested as any grain. Moreover, there seems to be a tonic effect about the entire plant, and stock fed either the grain or the forage become full of energy as with no other grain.

As a nitrogen gatherer we are sure the Soy Bean has no superior, and where a crop to plow under is desired, nothing is better to add humus to the soil.

Its possibilities for silage has been thoroughly tested in connection with corn, the beans greatly assisting to make a balanced ration. When all these facts are considered, and also that it will grow on either fertile or impoverished soils, either limestone or freestone, its value is an established fact.

Many a time a meadow winter-kills and a catch-crop is needed. Millet has been largely used, but Soy Beans mature so quickly that they may be sown at the same time you would Millet, and the hay is much more valuable. One hundred pounds of Soy Bean Hay contains twice as much protein as the same quantity of Millet Hay.

What will surprise the grower is the splendid value of the hulls and stalks after the grain has been threshed. Both cows and sheep prefer the hulls to clover hay, and eat them

grain has been threshed. Both cows and sheep prefer the hulls to clover hay, and eat them and the stalks, dry and woody as they seem, and like them fully as well as the clover.

Time of Planting and Cultivation—Soy Beans are not a lazy man's crop. They require as much skill and patience as the potato crop. Plow your land early in the spring, if possible, selecting soil that is not too foul with weeds. Prepare and cultivate the same as for corn, giving frequent harrowings to kill the weeds as they appear; therefore, wait until corn planting time before planting the beans. Plant in with the corn or in alternating rows. Sow 34 bu, to the acre. We advise planting in drills about 36 inches apart. 2 or 3 inches in the drill. Price, \$5.00 per bushel.

Book on Soy Beans by W. F. Ingalls, a practical farmer, of Hamilton, N. Y., who has grown the Early Medium Green Soy Beans for many years, and is an authority on same. Price, 60 cents.

AUSTRIAN TWO-ROWED BARLEY



Beardless Barley

This grand type of Two-rowed Barley was imported from Austria, where it has been brought to its present perfection after many years of careful study and selection. A measured bushel will weigh fifty-six pounds. The straw is stiff, very strong, grows three feet high, and will stand up against the most severe weather conditions without lodging. Each kernel stools three to six stalks, showing its great prolific strength and value. 1½ bushels of Austria Barley is sufficient for one acre, owing to its heavy stooling qualities. Last season—1913—which was a bad year for all grain crops, it grew 55 measured bushels to the acre. This would make nearly 65 bushels according to weight. It is extremely hardy, coming as it does from a colder climate, which is a very important item in all seeds, as it is a well-known fact that the seed grown in a colder climate is hardier, stronger and will produce better results.

Special prices for quantities made upon application. Price ber bushel, \$2.00.

STATE GROWN TWO-ROW BARLEY

This Barley is greatly esteemed by our New York State farmers, who are unanimous that it is the best adapted to our soils and seasons and very popular for brewing. It is always in good demand and at excellent prices. We offer Two-Row Barley for seed purposes which has been carefully re-cleaned and which will produce good clean barley and command a higher price in the market. Price perbushel, \$1.50.

BEARDLESS BARLEY

It is a fair yielder, strong growth of straw without the objectionable beards, which gives it a superior feeding value. These features make it the best and most profitable barley known. It was introduced by us several years ago, and has proved to be very popular. Price per bushel, \$2.00.

TO MAKE AN EARLIER AND LARGER CROP OF

BEANS----PEAS----ALFALFA

AND ALL OTHER LEGUMES USE

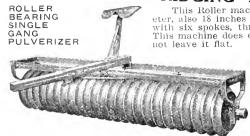


Inoculated with Farmogerm

FARMOGERM INOCULATION. This can be used with splendid profit to increase the yield of Peas, Beans, Alfalfa, Clover, Soy Beans, Cow Peas, Vetches, etc. Greater yields of Peas and Beans for canning purposes are assured by the use of Farmogerm Inoculation. These crops will also command higher prices when inoculated because the yield is much richer and better filled out. Every trucker should use inoculations without fail when planting peas and beans for the cannery. In order to give these the opportunity of doing their best, Inoculation of Seed and Soil through the use of FARMO-GERM is necessary. This preparation has been on the market for many years, and we can recommend it to our farmers as being perfectly reliable and highly profitable. Put up in bottles ready for use.

Price	per	a	cr	e'								٠					. 5	\$2.00)
Price	per	5	a	cr	e	S	 											8.00)
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RIDGING ROLLER



This Roller machine is made with wheels 15 inches in diameter, also 18 inches in diameter, each wheel being 4 inches wide with six spokes, three on each face, made in one solid casting. This machine does excellent work, compressing the soil but does

The angle steel frames form a weight box. The seat balances weight of pole, relieving the horses of neck weight. The axle is 1% inches round, with each end turned perfectly smooth, to fit into roller bearings. Cap is placed over end of axle, making bearing practically dirt proof. Hard grease coups are supplied on all bearings. This machine does excellent

This machine does excellent work in preparing the seed-bed and is highly recommended by Government Experimental Standard as little irrigating ditches. These will also hold the snow and prevent it from being blown over the fields in winter grain or new seeded Alfalfa fields; thus forming a blanket of snow protection for all grain and seeded fields. Also, breaks up the lumps, packing and pul-

rerizing the ground—keeping the soil moist, 7-foot Roller, 15-inch.....\$28.00 8-foot Roller, 15-inch......32.00

HOW TO GROW ALFALFA

BY INOCULATING SAME WITH WHITE SWEET CLOVER (Melilotus Alba)
Use Five Pounds Sweet Colver for Each Acre
PREPARATION OF THE SOIL



This letter will doubly interest all farmers who

This letter will doubly interest all farmers who grow alfalfa:
Mr. F. H. Ebeling:
Dear Sir—The letter you sent me in regard to Alfalfa Growing can hardly be compared to my method, as it describes the handling of the crop after it is established, and my experience so far has been in restrictions as a read at the day catched as it is compared. been in getting a good stand or catch as it is commonly called, which I think is the most important of all, for if you do not have a good stand you cannot expect a good crop. Now, I will tell you the method I used in getting the finest stand of Alfalfa I have seen anywhere this year.

I plowed the ground about eight inches deep in the month of April, harrowed it the same way it was plowed, cross-harrowed it alternately each way until I went over it four times, when I went over it with a disc set to cut as deep as it would go, then I went over it with a Ridging steel roller, and right here let me say, I consider this the most important tool on the farm in getting your ground in good shape. It packs and pulverizes the ground and prevents it from drying out. My ground was now in fine shape for the drill. As a nurse crop I used Canada Peas on part of this ground and Oats on part, and each gave good satisfaction. The seed was cut in with a disc drill set as deep as it would go, and the Alfalfa seed was sown ahead of the discs and was covered at least four inches deep. I sowed 14 quarts of Alfalfa and 2 quarts of Timothy to the acre. I followed the drill with the corrugated steel roller, leaving the ground as fine as any garden and packed closely. The seed was sown the last part of May. The season as you know was extremely dry. One light rain in June was all this crop got, and yet the seed came up quickly and never stopped growing during the driest weather. When it first showed through the ground it had roots four inches long. About the middle of August I pulled up some of the average plants, and the roots were nine inches long and the foliage a rich dark green, showing it was standing the drouth splendidly. The first of October I pulled up some of the average plants, and the roots were nine inches long. Of course, I do not know how this will come out in the spring, but I have no fear of its freezing out, for I think it is too well rooted for that. I think a good many farmers fail to get a start of Alfalfa, because—first they do not sow enough seed to the acre, second—they do not put their ground in good shape and thoroughly packed, third—they sow the seed too shallow.

I expect to sow 25 bushels more next spring and I intend to follow the same methods was plowed, cross-harrowed it alternately each way until I went over it four times, when I went over it

for that. I think a good many larmers and not sow enough seed to the acre, second—they do not put their ground. In thoroughly packed, third—they sow the seed too shallow.

I expect to sow 25 bushels more next spring and I intend to follow the same methods again. Don't forget the Ridging Steel Roller. It is the grandest tool on the farm, and used with a Clark's Cutaway Harrow makes the finest combination a man can get.

I expect to be in Syracuse soon and will call and see you.

ALFALFA

ALFALFA

Alfalfa Seed that we

We have just received a car load of the finest American-grown Alfalfa Seed that we have ever handled. Upon submitting a liberal sample to the Seed Testing Division of the Department of Agriculture at Washington, D. C., for test, the report of this test submitted by them under date of December 12, 1913, showed a purity of 99.94. This is the purest, cleanest car of Alfalfa Seed we have ever seen, and we trust our farmers will avail themselves of this opportunity and place their orders while it lasts. Special prices on large orders.

VICIA VILLOSA. HAIRY OR WINTER VETCH.

Makes One of the Largest Yielding and Most Nutritious Hay Crops Grown. Rivals Cow Peas in its Nitrogen Gathering Properties. A Splendid Soil Improver.

Hairy or Sand Vetch, as it is sometimes called, we consider is one of the best annuals grown for stock feed, soil improving products, and is a cover-crop in our orchards.

Our customers tell us that Vetch is better than clover for hay and it is superfor to peas in easy curing. It gives a great abundance of nutritious food which the stock like very much. It gives fine lesults sown at last working of corn.

When used as a soiling crop an acre of vetches and oats, rye or winter wheat, will yield from six to eight tons of green fodder which is eaten greedily by all kinds of stock.

On Any Well-Drained Soil

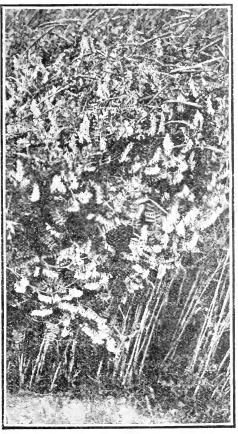
Our Vetch will grow on almost any drained soil and is especially adaptable for sandy and thin soils, although, of course, it will produce heavier yields on a better class of soil.

When you prepare a soil for Vetch you should see that the pulverization is fine. Aim to have the ground firm and moist. Cover the seeds about the same depth as cereal grains.

Your Care of the Crop

Vetch is usually sown from about the middle of August to the first of October; or in the Spring, usually the latter part of April to the middle of May. You may sow it broadcast or with a grain drill, at the rate of 1 to 11/2 bushels of seed per acre if sowed alone.

Pure cultures for inoculating seed may be obtained free of charge from the United States Department of Agriculture.



Hairy or Winter Vetch

A bushel of rye, wheat or oats per acre is usually sown with vetch so as to furnish a support to keep the vines off the ground.

The vines are very difficult to cut when sown alone, but if you sow grain as a nurse crop you can cut the combination very early with the mowing machine or pea harvester.

Harvest and Use

Vetch should be cut for hay just when the pods are half formed. You may cut it for green feed at the time it is in full bloom. When it is properly cured vetch makes good hay, as its feed value is simlar to clover.

It is adapqted for pasturage purposes. It will produce forage very late in the Fall and early in the Spring. Sometimes it is used for ensilage in alternating layers with green corn. Like all other leguminious plants, vetch adds fertility to the soil and may be used in rotation with correct and corn to good educators. Spring Vetch \$750 but Wirter Vetch \$75

W	with cereal and corn to good advantage. Spring Vetch, \$5.50 bu.; Wir	nter Vetch, \$7.50 bu.
	QUESTION Summary ANSWI	ER
3.	1. How to Sow Vetch. Mix with one bu. grain 25 2. When to Sow. When season and soil perr 3. What Variety? Sow Winter Vetch in the 4. What Soil? Any soil—especially high, soil.	Ths. vetch to the acre. nits. Spring and Fall.
7. 8.	5. How much to the Acre?	Clover Ha y.

EXTRA RE-CLEANED GRASS AND CLOVER SEED

Nothing is more important to the farmer than that the grass seed he sows should be pure and clean. The seed should also be plump, heavy and well ripened, so as to insure a good stand. First-class, thoroughly re-cleaned good with coordinates. pure and clean. The seed should also be plump, heavy and well ripened, so as to insure a good stand. First-class, thoroughly re-cleaned seed, while considerably more costly in the first place, is really much cheaper in the end than the light, chaffy grades generally sold at much lower prices—even should the latter be free from weed seeds. Heavy, plump seed, germinating better, will produce a much greater number of strong plants.

We handle but one grade—that is the very BEST which can be obtained from any source. At pound prices, where so stated, we send grass seed by mail, postpaid. In larger quantities the prices are for seed to be sent by express or freight (sacks included), at purchaser's expense. Where large quantities are desired or Special Mixtures wanted for different soils, we should be pleased to advise as to the proper varieties.

pense. Where large quantities are desired of Special minimum pense. Where large quantities as to the proper varieties.

Defect on grass seed fluctuate. Write for prices on large quantities.

GRASSES



Bromus Inermis

BROMUS INERMIS. A hardy perennial, dark green soft grass, especially adapted to the dry and thinner soils. It forms a splendid grass for our Central New York farms, making fine pasture and good hay. It is one of the few really desirable grasses that can be depended upon for all around purposes. It is finer than Orchard Grass sweet and putrifiner than Orchard Grass, sweet and nutri-tious, and sprouts out into fresh growth very naturally. Well adapted to high grounds, hills and sandy soil. It makes quick and strong growth, forming splendid pasturage and hay, weighs 14 pounds to the bushel. Sow three bushels to the acre. Price \$2.25 per bushel.

For dry and exposed lawns Bromus Inermis is especially adapted. It is a hardy perennial, dark green, grows on hills, dry and barren spots. It forms a splendid pasture and will grow where no other grass will thrive. Sow double the quantity of Blue Grass.

ORCHARD GRASS. (Dactylis glomerata). This is one of the most desirable pasture This is one of the most desirable pasture grasses for stock, and also for producing large crops of hay. It succeeds well in quite shady places, hence the name of Orchard Grass. Choicest re-cleaned seed, 14 lbs. to the legal bushel—but our seed is heavier; 3 bushels to the acre. Per lb., 40 cts., postpaid; per bushel of 14 lbs., about \$3.00.

TIMOTHY. (Phleum pratense). Of the easiest cultivation and with us is usually sown in connection with winter grain in the fall, to which a seeding of clover is added early in the spring. 45 lbs. to the bushel; from 12 to 16 to the acre. Per lb., 35 cts., postpaid; price per bushel about \$4.00.

KENTUCKY ELUE GRASS. As is well known, this is the grass for which the State As is well known, this is the grass for which the State of Kentucky is famous and frequently in some sections of the country it is used in making lawns, although it is preeminently a pasture grass. When Kentucky Blue Grass is used for lawn purposes, the seed is generally sown at the rate of two and one-half to three and one-half toushels to the acre, and if White Dutch Clover is desired, seed should be added at the rate of one-half pound to one bushel of grass seed. Kentucky Blue Grass thrives best in well-drained or limestone soils. Legal weight, fourteen pounds to the bushel, and for pasturage it is customary to ow two and one-half bushels to the acre. Our recleaned seed weighs 20 pounds per bushel, and hence less than two bushels are required per acre. Per lb., 50 cents, postpaid; per bushel of about 20 lbs., \$4.00.

paid; per bushel of about 20 lbs., \$4.00.

ENGLISH RYE GRASS. (Lolium perenne). This makes a quick growth very early in spring, and is adapted for cool, moist locations, recommended for fall seeding on Bermuda-grass lawns in the South, giving them a bright green appearance all winter. 24 lbs. to the bushel; 3 bushels to the acre. Per lb., 25 cts., postpaid; per bushel of 24 lbs., \$2.75. ITALIAN RYE. (Lolium Italicum). This is distinct from the preceding, being of much larger and stronger growth, with large broad glossy-green blades. It succeeds best

much larger and stronger growth, with large broad glossy-green blades. It succeeds best in moist, fertile soils. About 20 lbs, to the bushel; 3 bushels to the acre. Per lb., 25 cts., by mail, postpaid; per bushel, \$2.50.

RED TOP OR HERD GRASS. (Agrostis vulgaris). It is a most valuable addition to sow with timothy and clover to form a close sward for pasturage. About 32 lbs. to the bushel; 1 bushel to the acre; for lawns, 3 bushels to the acre. Per lb., 30c., postpaid; per bushel of 32 lbs., about \$10.00.

CRESTED DOGSTAIL. (Cynosurus cristatus). A valuable addition for lawn grasses

A valuable addition for lawn grasses which require close cutting and an ability to resist tramping, as in golf links, etc. 21 lbs. to the legal bushel; 1 to 2 bushels to the acre. Per lb., 50 cts., postpaid; per bushel of 25 lbs., \$8.75.

CREEPING BENT. (Agrostis stolonifera). Especially adapted to moist lands and those occasionally overflowed. which are peculiar habit of branching underneath the surface enables it to resist to the greatest extent tramping and pasturage. About 20 lbs. to the bushel; 2 bushels to the acre. Per lb., 45 cts, by mail, postpaid; per bushel of 20 lbs., \$7.75.

HARD FESCUE. (Festuca durinscula). An excellent pasturage or lawn grass, succeeding well in dry or shady locations. About 12 lbs. to the bushel; 2½ bushels to the acre. 40 cts., postpaid; per bushel of 12 lbs., \$4.60.

SHEEP'S Festuca FESCUE. avina). Slender blades growing in close, compact clumps and from six to ten inches in height. About 12 lbs. to the bushel; 2½ bushels to the acre. Per lb., 40 cts., postpaid; per

About 12 lbs. to the bushel; 2½ bushels to the acre. Per lb., 40 cts., postpaid; per bushel of 12 lbs., \$4.50.

MEADOW FESCUE. (Festuca pratensis). A fine pasture grass. About 22 lbs. to the bushel; 2 bushels to the acre. Per lb., 60 cts., postpaid; per bushel of 22 lbs, about \$9.50.

TALL MEADOW OAT. (Avena elatior). A very valuable pasture grass. It is especially adapted for rather dry, light soils. About 10 lbs. to the bushel; 4 to 5 bushels wo the acre. Per lb., 40 cts., postpaid; per bushel of 10 lbs., \$2.75.

WOOD MEADOW. (Poa nemoralis). An excellent pasture or lawn grass, desirable for planting under trees on the lawn. 14 lbs. to the bushel; 2 bushels to the acre. Per lb., 60 cts., by mail, postpaid. By express: \$6.00 per bushel.

ROUGH-STALKED MEADOW GRASS.

ROUGH-STALKED MEADOW GRASS. (Poa trivialis). A valuable grass for moist (Poa trivialis). A valuable grass for moist soils or meadows, making excellent pasturage or very nutritious hay. About 14 lbs. to the bushel; 35 lbs. to the acre. Per lb., 55 cts., postpaid. By express: 45 cts. per lb.; per bushel of 14 lbs., \$7.50.

MEADOW FOXTAIL. (Alopecurus pratensis). Closely resembles Timothy in growth, but has a soft, feathery head. It is a valuable pasture grass by reason of its a valuable pasture grass by reason of its

a valuable pasture grass by reason of its rapid growth. About 7 lbs. to the bushel; 3 bushels to the acre. Per lb., 55 cts., postpaid; per bushel of 7 lbs., \$2.85.
HUNGARIAN MILLET. (Panicum Germanicum) Seed can be sown early in July to produce a good crop of hay. To make the best hay it should be cut before the seeds become hard. 48 lbs. to the bushel; 1 bushel to the acre. Per bushel, about \$2.00.
GOLDEN OR GERMAN MILLET. This is the favorite variety for planting in good land to produce a large crop of hay or forage

land to produce a large crop of hay or forage during the summer months; of very strong growth. 50 lbs. to the bushel; 1 bushel to the acre. Tennessee grown. Per bushel,

about \$2.25.

DWARF ESSEX RAPE. A forage plant of DWARF ESSEX RAPE. A forage plant of highest value. It can be sown in April for an early crop, and for fall crop in July, August and September, and still later further south: it is sown broadcast 10 lbs. to the acre, but it is better drilled, in which case 5 lbs. to the acre will suffice. In a few weeks from the time of sowing, sheep, hogs or cattle can be turned upon it; all reports agree that they gain weight faster on this than any other fodder, and as it can be sown after other crops are off, the gain in fodder is secured at a nominal cost. Stockmen, dairymen and farmers have proved its value. Per fb. 15c; 10 fbs., \$1.20; bushel of 50 fbs., \$5.50; 100 fbs., \$10.00. \$10.00.

SORGHUM, OR EARLY AMBER SUGAR CANE. This is the sorghum of the Northern States; makes the finest quality of syrup. The states; makes the linest quality of syrup. The earliest and most productive variety. Height, 10 to 12 feet. For ensilage or fodder it possesses good qualities; stock of all kinds relish it. Sow 5 bs. in drills, or 1½ bushels broadcast to acre. Per fb., 10c; Bu. (56 fbs.), \$3.00. SPRING VETCHES, OR TARES (Vicia Sativa). Highly valuable for soiling or for green manuring. Sometimes grown with oats, for

mowing and feeding to stock. Sow 25 lbs. with one bushel grain per acre. Price per \$5.00.

WINTER VETCHES, OR TARES (Vicia Villosa). Also called Sand Vetch, or Hairy Vetch. Recommended for fall sowing with rye, which serves as a support. It is perfectly hardy in all parts of the country, remaining green all winter and maturing fully four weeks earlier than Scarlet Clover; it can, therefore, be harvested or plowed under, and the ground used for the usual spring crop. Sow 25 lbs. with one bushel grain per acre. Price per bushel, \$5.50.

CLOVERS

ALFALFA, OR LUCERNE. (Medicago sativa). It strongly resembles clover in habit of growth and feeding value, but withstands drought much better. It is a perennial stands drought much better. It is a perennial plant on well-drained soils, so that when once established, it will continue to produce large crops for twenty years when properly cared for, and on some of the rich western prairies yields four to five large cuttings in a single season. It must be cut every time it comes into bloom, and not allowed to produce seed if permanence is desired. The plant is quite hardy, but will not succeed on low wet soils. Sow from 20 to 35 lbs. per acre. Per lb., 40 cts., postpaid. By express or freight: 30 cts. per lb.; 10 lbs. at 28 cts. per lb.

or freight: 30 cts. per lb.; 10 lbs. at 25 cts. per lb.

ALSIKE OR HYBRID CLOVER. (Trifolium hybridum). The plant is perennial and very hardy, thriving equally well on wet or dry soils. The stems are more slender and much taller than those of the Red Medium Clover, and thus much better adapted for growing with Timothy to produce a high grade of mixed hay. Sow at rate of 10 to 20 lbs. to the acre. Per lb., 40 cts., postpaid. By express or freight:per lb., 30 cts.; 10 lbs. or more at 28 cts. per lb.

RED MEDIUM OR MAMMOTH. This is the common Red Clover so largely grown. We shall be pleased to quote prices at any time.

time.
WHITE DUTCH CLOVER. (Trifolium repens). This thrives in almost every soil and climate, succeeding equally well on heavy, moist land and thin, dry hillsides. It is of low-creeping growth and for green, velvety lawns. Per lb., 55 cts., postpaid. By express: 45 cts. per lb.

SWEET CLOVER BOKHARA (Melilotus Alba). This slightly resembles Alfalfa in growth, but is much taller, with leafier and stiffer stems. It frequently grows five to six feet in height and branches freely, with slender spies of small, fragrant, white flowers, which afford an excellent food for bees. Used also for inoculating Alfalfa soils.

CRIMSON OR ITALIAN CLOVER. (Trifolium incarnatum). An annual variety pro-

folium incarnatum). An annual variety pro-viding large crops of green forage, or if cut viding large crops of green forage, or if cut while in bloom will make excellent hay. It should not be allowed to grow too old, or the seed-heads are liable to cause hair-balls to form in the animals' stomachs, to their great injury. It is for use as a green manure and cover crops that this plant is most highly esteemed. It improves poor lands and restores to fartility these were by most highly esteemed. It improves poor lands and restores to fertility those worn by excessive culture. Seed should be sown early in August. Sow 15 lbs. to the acre.

INOCULATION of these Clover Seeds means a stronger catch and better yield—see page 10.

FOR DESTROYING DODDER IN ALFALFA FIELD

Use a spray consisting of four parts of water, one part crude carbolic acid.
Mix thoroughly in hot water.
Spray this on the infected spots with an ordinary paris green sprayer.
If necessary spray the second time.
This will kill the dodder and save about 75 per cent. of the growing Alfalfa.
I am indebted to J. C. Osborn, Port Byron, N. Y., for this valuable discovery. F. H. E.



COPENHAGEN MARKET

The wonderful extra Early Cabbage. This superb new variety was introduced several years ago and created a great stir among the Market Gardening Fraternity. It is without question at the head of the early sorts and without rival as being the finest large round-headed Early Cabbage in cultivation. The type, thoroughly fixed, heads maturing all at the same time; hence causing less labor in harvesting, and permits the ground to be used promptly after the first cutting for other crops. Heads average about eight pounds which are very solid with small core and of very fine quality. quality.

Etheridge & Clark, Market Gardeners in the southern part of the city, grew some that weighed fifteen pounds each, and we are attaching. their testimonial regarding

same.

"We grew the COPENHAGEN EARLY MARKET CABBAGE during the season of 1913 with most remarkable results. Began cutting cabbage July 1st, 1913, weighing 15 lbs. and 2 oz. Mr. Etheridge of the firm says that the Copenhagen Early Market is by far the earliest, largest, most productive and profitable of all the early varieties he has ever planted, and considers it the coming variety for early Market Gardeners, 414 E. Colvin street, Syracuse, N. Y.

This Cabbage was originated and perfected in Denmark, the finest cabbase section in the world.

section in the world.

THE PARCEL POST

We offer strongly made paste-board Boxes of various sizes, which are waterproof, sanitary, light, firm and strong. These come folded and take up little space, but can be opened and made ready for use in a moment. Made of double-faced corruated jute board, a perfect cushion for eggs and other fragile articles, and also protects from heat and cild. Suitable for Eggs, Poultry, Vegetables, etc.

NEVER-SLIP SHOES Safety for the Horse

At last a practical guaranteed device has been invented that will protect a horse from falling on icy pavements and State Roads. No nails, no chains, no straps—fits on any shoe with alteration. NEVER-SLIP RED-TIP EMERGENCY SHOES can be put on or removed in a few minutes. Carry a set on the wagon and you are always ready for sudden freezings or sleet storms. They fit on the shoe and not on the hoof. Cannot cause contraction. Held fast by a lockwasher; therefore cannot drop off. Made of drop forged steel; consequently will not break.



Nos. 1 to 5 Nos. 6 to 10 FOR SALE BY F. H. EBELING, SYRACUSE, N. Y. We sometimes make them, so does everyone! We will CHEERFULLY correct ours if you will write us. How can we correct them if you DON'T? Try to write to us good naturedly, but if you can't, write to us anyway. Don't kick to anyone else, or nurse a grievance. If we have ever made an error or offended you, it's only simple justice to us to let us know. We correct our mistakes gladly. If our methods don't appeal to you, help us with criticisms from your point of view. It is inevitable that in business letters hastily written should sometimes rub the wrong way. We may be awkward in expressing ourselves, but our goods are honestly sold and we aim to give everyone a square deal.





ASPARAGUS

Culture—Sow early in spring in rows one foot apart; when one year old the roots may be taken up and transplanted in permanent beds, which should be made by taking out the soil to a depth of about 16 inches, fill in with six inches of well rotted stable manure, then six inches of soil somewhat firmed, and place the roots on the same about 10 inches apart with the roots well spread out and cover so that the crown will be about four inches below the surface. Keep the surface well raked to keep down the weeds until the shoots appear.

Palmetto

Conover's. Oz. 10c; ½ tb. 25c; tb. 75c.

Columbian Mammoth White
other artificial blanching. Fine for canning.
Oz. 10c; ½ tb. 25c; tb. 75c.

Roots of above varieties, \$1.00 a hundred.

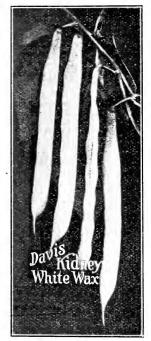
BEANS—Dwarf Wax Varieties, Garten Bohne

Culture—Beans should not be planted until the ground is warm, as cold and wet weather will cause the seed to rot. For garden culture plant four or five seeds in hills one foot apart, and the rows 18 inches apart. For field culture make the rows three or three and one-half feet apart, and cover with two inches mellow soil. Do not hoe or cultivate while the plants are wet with dew or rain, as getting the leaves bespattered with earth causes rust, which injures the crop.

Pencil Pod Wax

This comparatively new wax podded bean is particularly handsome, also medium early, hardy and very prolific. Leaves roughellow color; tender, absolutely stringless and of excellent quality, and are produced through a long season. One of the best for home use and near markets. Seed long, round, medium sized; color solid black.

Pt. 20c; Qt. 35c; Bu. \$8.00.



Davis Wax
A very hardy and productive variety, desirable where a wax-podded, white seeded, bly long, six and one-half to seven inches, light yellow; seed kidney-shaped.

Pt. 20c; Qt. 35c; Bu. \$8.00.

Wardwell's Kidney Wax

Golden Wax, yields a large crop of long, nearly straight, broad, creamy white, handsome pods. These are of large size, about six inches long, and are of good quality; kidney-shaped, white with dark markings about the eye. Pt. 20c; Qt. 35c; Bu. \$8.00.

Keeney's Rustless Golden Wax
with short runners. Pods produced in abundance; about five inches long, stringless, light yellow, wax-like and handsome. Seed similar to a light colored Golden Wax. Pt. 20c; Qt. 35c; Bu. \$8.00.

Bu. \$8.00.

Currie's Rust-Proof Wax Pods straight, rather flat, five inches in length, and of a light golden yellow; seed black. Pt. 25c; Qt. 35c; Bu. \$8.00.

German Wax, Black Seeded

This variety takes the place of the old black wax or butter bean and is much better in every respect. Vines medium sized, with small foliage, very vigorous, hardy and productive, maturing about midseason. Pods medium length, four and one-fourth to four and one-half inches, borne well up from the ground, curved, cylindrical, fleshy and of a clear, light golden yellow color, and remain a long time in condition for use as snaps. Seed small, oblong, jet black. Pt. 25c; Qt. 35c; Bu. \$8.00.

Qt. 35c; Bu. \$8.00.

Round Pod Kidney Wax is exceedingly handsome and very desirable, especially for snaps for the home garden. The vines are dwarf, spreading and very productive. The leaves are roughened. The pods are long and round, five and one-half to six inches, slightly curved, light yellow, wax-like, stringless and of the best quality. They are uniformly perfect, an ill shaped one being rarely seen. Seed long, cylindrical, medium sized, nearly white, with a little dark marking about the eye. Pt. 20c; Qt. 35c; Bu. \$8.00.

Davis Kidney White Wax pods are handsome, clear creamy white, very long, six to seven inches, straight or slightly curved, flat but fleshy and of good quality, stringless if picked when quite young; matures its crop late. Seed long, cylindrical, uniform in shape; color dull purplish red splashed with pale buff. Pt. 25c; Qt. 35c; Bu. \$7.00.

Grenell Rust-Proof Wax Vines a little more upright and hardier than the data out of Golden Wax. The handsome deep yellow pods are about five inches long, broader and flatter than Golden Wax but slightly inferior in quality. Seed similar to our Golden Wax but darker. Very popular with some gardeners. Pt. 20c; Qt. 35c; Bu. \$8.00.

BEANS—Pole Wax

This midseason variety is exceedingly for snaps for the home garden. The hondsome deep yellow pods are long and very productive. The peakers of this variety are exceedingly vigorous, hardy and productive. The yellow, wax. The handsome deep yellow pods are long of the best quality. They are uniformly perfect, and one-half to six inches, slightly curved, light yellow, wax. The handsome deep yellow pods are long and very productive. The leaves are roughened. The hondsome deep yellow pods are long and very productive. The leaves are roughened. The hondsome deep yellow pods are long and very productive. The leaves are roughened. The handsome deep yellow pods are long and very productive. The leaves are roughened. The handsome deep yellow pods are long and very productive. The leaves are roughened. The handsome deep

BEANS—Pole Wax

Kentucky Wonder Wax

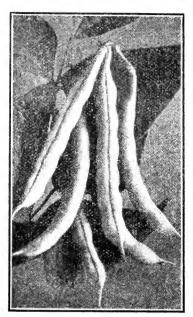
This remarkably vigorous growing, wax podded pole bean is very similar to the green podded Kentucky Wonder, but the very long pods are a little broader, very fleshy and quite stringless as snaps. The mature pods are often eight to nine inches in length. Seed medium sized, oval, flattened, very irregular, dark brown. The seed even from the most matured crops is usually somewhat shriveled in appearance. Its earliness and hardiness commend it as a pole bean well adapted even for northern latitudes. Its very large, golden yellow pods are certainly handsome in appearance and are unexcelled in quality by any wax podded bean of its class. Pt. 25c; Qt. 45c: Bu. \$8.50. 45c; Bu. \$8.50.

BEANS—Dwarf Green Podded Varieties

Early Mohawk

This sort is so much hardier than the others that it can be planted earlier and often will furnish beans fit for use before any other kind. Vines large, stout, with large, coarse, dark green leaves. Pods medium dark green, long, six to six and one-half inches, straight, coarse, flat, with long tapering points. Seed long, large, kidney-shaped, variegated with drab, purple and brown.

Pt. 20c; Qt. 35c; Bu. \$7.00.



Burpee's Stringless Green Pod

Burpee's Stringless Green Pod desirable green podded snap sort for the home garden and largely grown for the market. The vine is vigorous, spreading and productive. The pods are medium green, five to six inches long, larger than those of the Red Valentine but are quite as fleshy, of equally high quality and remain crisp and tender longer. They mature a little later. Pt. 25c; Qt. 40c; Bu. \$8.00.

Extra Early Round Pod Red Valentine Sorts both for the home and market garden and many prefer it to the wax varieties. Vines medium to large, erect, with dark green leaves. Pods medium length, about four and one-half inches, curved, cylindrical, with crease in back, very fleshy, crisp and tender. Pt. 20c; Qt. 35c; Bu. \$8.00.

Refugee, or 1000 to 1 Of compact growth and very prolific. The pods are light green, very solid and tender. Pt. 20c; Qt. 45c; Bu. \$10.00.

Dwarf Horticultural Vines very productive, compact, upright, with large leaves. Pods five to five and one-half inches come fit for use as green shelled beans early and in this condition the beans are very large, easily shelled and are about equal to the Lima in quality. One of the best sorts for green shell beans for home and market. Pt. 25c; Qt. 40c; Bu. \$8.00.

Round Yellow Six Weeks, While this does not differ Improved Round Pod from Early Yellow Size or general appearance of vine, pods are shorter, about four and one-half inches, much thicker, fleshler and mature earlier. Seed midum sized, round, light yellow with slightly darker marking about the eye. Pt. 20c; Qt. 35c; Bu. \$8.00.

BEANS-Dwarf or Bush Lima

Culture—Select land that is especially warm, rich, and well supplied with vegetable fibre or humus. Plant as soon as the soil has become warm in the spring. Make the rows 2 feet apart and give to each plant 6 inches space in the row. A top dressing of poultry manure, ashes, or some good fertilizer or compost around the plants will be of much benefit in hastening maturity and increasing the yield.

Dreer's Bush Lima

A dwarf variety of the Dreer's Improved Lima. The beans grow close together in the pods, producing 3 to 4 and sometimes in a pod, and are thick, sweet and succulent. Pt. 25c; Qt. 40c; Bu. \$8.00.

Burpee's Bush Lima

True bush form of large white Lima, bush 15 to 20 inches high, 24 to 30 inches diameter, supported by its own thick quality of beans it is not surpassed. Pt. 25c; Qt. 40c; Bu. \$10.00.

BEANS—Pole Lima

Ideal Pole Lima
One of the largest and most valuable Lima beans yet introduced. Vines unusually vigorous, very productive, bearing large clusters of broad pods each six to seven inches long, and containing four to six large beans of most excellent quality. While the variety matures a little later than Seibert's Early Lima, the pods are much larger and no Lima grown is more attractive. Pt. 25c; Qt. 45c; Bu. \$8.00.

King of the Garden Lima

Vines very vigorous and productive. Pods five to six inches long, filled with four or five immense white beans of the finest quality. On account of its large pods it is a favorite with market gardeners. It will come into bearing sooner and will make larger pods if not more than two vines are left to grow on a pole. Pt. 25c; Qt. 45c; Bu. \$8.00.

Seibert's Early Lima In earliness, ease of shelling, size, beauty and quality of the green beans, this variety is far in advance of all other early Limas for either the garden or market. The vine is vigorous, very productive and continues so from the very first to the last of the season; so that although the pods rarely contain more than four beans the total yield is enormous. Pods about five inches long. The green shelled beans are very large, very tender and of finest quality. Pt. 25c; Qt. 40c; Bu. \$8.00.

Jersey Extra Early Lima Large, early and productive. Pint 25c; Quart 40c; Bushel \$8.00.

BEETS, Ruben

The best results are obtained on a deep, rich, sandy loam. If wanted very early, sow such sorts as Crosby's Egyptian or Detroit Dark Red in hotbeds and transplant, cutting off the outer leaves. For general crop sow in freshly prepared soil as soon as the ground will permit, in rows eighteen inches apart covering about an inch deep and pressing the soil firmly over the seed. For winter use the turnip varieties may be sown in June so as to mature late in the season.

Extra Early Egyptian

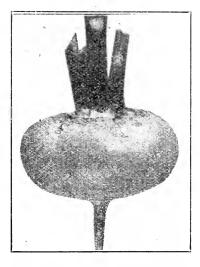
Blood Turnip

cellent for first early, crop out
of doors, being very early with
small tops. Root very dark red, moderately thick, a
little rounded on top, distinctly flat on the bottom,
and about two inches in diameter when mature. Flesh
dark purplish red, zoned lighter shade.

Oz. 15c; 1/4 lb.
40c; lb. \$1,25.

Crosby's Egyptian The name of this variety is misleading, as it resembles the Egyptian only in its extreme earliness. Tops small. The roots are flattened globe shaped and very smooth. Exterior color of root bright red. The flesh of our strain is bright vermilion-red, very sweet, tender and of excellent quality. It becomes fit for use sooner than any other variety, but it is not as well suited as the Egyptian for forcing in hotbeds or for transplanting. Oz. 15c; 1/4 1b. 40c; 1b. \$1.50.

Detroit Dark Red We best beet for the market beet rich color the most desirable for canning. Tops small, upright in growth. Very smooth and of dark blood red color. Flesh is deep vermilion-red, zoned with a lighter shade of the same color. Careful comparisons with all the prominent varieties on the market in this country and in Europe prove that the Detroit Dark Red Beet is the most uniform in shape and size and the most attractive in color. It is unsurpassed in quality. Oz. 15c; 1/4 lb. 40c; lb. \$1.50.



Extra Early Egyptian Blood Turnip



Detroit Dark Red

Early Eclipse An early beet especially desirable for the home garden. Tops small. Root bright deep red, smooth, round. Flesh bright red, zoned with pinkish white; very sweet, crisp and tender. Oz. 15c; 1/4 fb. 40c; fb. \$1.25.

Edmand's Early Blood Turnip Tops short and ing; ribs and leaf stalks dark red. Root nearly round; exterior color dark red, interior color purplish red with little zoning; crisp, tender, sweet and an excellent keeper. Oz. 15c; 1/4 tb. 40c; tb. \$1.25.

Early Blood Turnip

An extra selected stock of Blood Turnip, having larger, coarser tops and root than Detroit Dark Red and requiring a considerably longer time to mature. Root nearly round or slightly flattened. Flesh deep red, zoned with lighter shade, sweet, crisp and tender. Oz. 15c; // fb. 40c; fb. \$1.25.

Bastian's Early Blood Turnip ${\rm An\ \ e\ a\ rl\ y}, {\rm b\ ri\ g\ ht\ red}, {\rm turnip\ shaped\ beet\ of\ very\ good\ quality}.}$ Root thick, medium sized tap. Flesh light purplish red; crisp and tender. Oz. 15c; ${\rm 1/4}$ 1b. 40c; 1b. \$1.25.

Dewing's Blood Turnip Tops medium sized; dark red; leaf green. Root dark purplish red, turnip shaped with medium sized tap. Flesh carmine with purple tinge. A medium early sort, tender, sweet and a good keeper. Oz. 15c; 1/4 tb. 40c; tb. \$1.25.

Half-Long Blood A fine variety for either spring smooth, flesh bright red and quality excellent. For winter use the seed should be sown early in July. Oz. 15c; 1/4 1b. 40c; 1b. \$1.25.

Swiss Chard, or Sea Kale Beet

A variety of beet grown exclusively for its large, juicy, tender, light colored leaves and leaf stalks, which are much superior to those of other beets for use as greens. Later in the season the broad, flat, wax-like leaf stems are cooked or pickled. This variety is worthy of a place in every garden. Known also as Silver or Spinach Beet. Oz. 10c: 1/4 tb. 25c; tb. 80c.

MANGEL BEETS, Mangel Ruben

Mangel Wurzels For stock feeding. We should learn a lesson from our brother farmers in Canada and duce the greatest results for the labor and money invested.

Golden Tankard

A smooth, yellow fleshed Mangel. The roots are of large diameter, tapering quickly at largely above the soil and is easily harvested. It yields enormous bulk on good land and can be grown closely in rows. Oz. 10c; 1/4 tb. 20c;

Golden Giant, or Yellow Leviathan very roots, Very fine large one-half above the surface, which renders the harvesting easy. Skin a rich golden yellow, flesh pure white and sweet in flavor. It is a magnificent root easily harvested, producing enormous crops, and is a fine keeper. Oz. 10c; 1/4 lb. 20c; lb. 45c.

Mammoth Long Red

This is a heavy cropper and a large vielder. The roots grow from one-half in length by six inches usual diameter. Dark, richly colored foliage, skin dark red, flesh white with veined rings of rose pink. Oz. 10c;

14. 15c. 20c; 1b. 45c.

Yellow Globe The roots are of a true globe shape, from six to eight inches in diameter. Skin rich orange yel//4 fb. 25c; fb. 45c.

Giant Eckendorf

The bast globe shaped Mangel known, being one of the most popular mangels among the German farmers, similar to the Ideal in shape, but not as large. Contains a high percentage of dry matter, grows well above ground, is easily harvested, skin light yellow, white fleshed. Oz. 10c; 1/4 lb. is easily had 25c; fb. 75c.

Lane's Imperial

This beet will yield almost as much in bulk as the best Mangels, and contains a large percentage of sugar. Roots smooth, broad at the shoulder, gradually tapering to the base.

Roots smooth, broad at the shoulder, gradually tapering to the base.

Ideal Sugar Mangel Beet
Mangel It is a perfect chunk of a beet, being as large at the bottom as at the top. Stands two-thirds above ground. Is easily harvested even on hard soils. This new and original Mangel has been tested grounds and field demonstrations, has proven to be IDEAL and superior in quality.

It contains the greatest amount of dry matter.

It contains the greatest amount of sugar of any
Mangel.

Mangel.

Mangel.

It grows high above ground.

It is very easy to harvest.

The IDEAL MANGEL has under favorable conditions weighed as high as thirty pounds.

Skin light yellow, flesh light yellow.

We have imported the IDEAL MANGEL from the originator in Germany for many years and this particular type can only be secured from this grower in Germany. Oz. 10c; 1/4 fb. 30c; fb. \$1.00.

NOTE THE FOLLOWING TESTIMONIAL.

NOTE THE FOLLOWING TESTIMONIAL "Syracuse, N. Y., Jan. 18, 1913.

F. H. Ebeling:

Dear Sir—I have grown Mangel Beets for years on my Homer Farm, but in recent years THE IDEAL MANGEL only, which I consider the most satisfactory, because of its large percentage of sugar, the ease of harvesting and the feeding results obtained. Last season I grew about four acres; yield 115½ tons of harvested Mangels. This year I intend to increase my acreage.

Yours very truly,

CHARLES M. CROUSE."

BROCCOLI

The heads resemble somewhat a coarse cauliflower and the culture is the same in all essentials as for that vegetable. Broccoli is well adapted only to those sections where the season is long, cool and rather moist. One of the most valuable features is that it withstands greater extremes of temperature than cauliflower.

Early Large White French

This is probably the most useful variety. Plants very hardy, vigorous and easily grown. Heads white, compact, hard and of good quality. Oz. 40c; ib. \$4.00. The heads resemble somewhat a coarse cauliflower



BRUSSELS SPROUTS

This vegetable is used in the fall and early winter and by some considered more tender and delicious than any cabbage. The plant resembles the cabbage, the edible part being the numerous very small heads or sprouts an inch or two in diameter formed on the stalk at each leaf joint. Culture is the same in all essentials as for cabbage, except the leaves should be broken down in the fall to give the little heads more room to grow.

Improved Half Dwarf

Probably the most useful variety, plants growing one and one-half to three feet high, very hardy and giving compact, round sprouts of large size and good quality. Oz. 15c; fb. \$1.50.

F. H. EBELING, SEEDS AND HARDWARE CABBAGE, Kopf-Kohl

It is difficult to give definite cultural directions for cabbage, since it is possible to have good cabbage at all seasons of the year in some part of the country, and seed can be planted almost any time of the year. There are three good seasons for sowing the seed, however—in September for late Winter and early Spring cabbages, in March for Summer and Fall cabbages, and in June and July for Winter cabbages. The seed sprouts quickly, and is likely to come up very thick in the seed bed. It should be thinned early, or the plants become spindling, and then do not head well. Transplanted to the field, they should be put twelve inches apart, in rows eighteen inches apart. To prevent the heads splitting open in the field before they are ready to be harvested, the plants should be loosened a little at the root. Cabbages require considerable moisture, but too much water causes them to rot very readily.

Early Jersey Wakefield

Oz. 25c, 1/4 fb. 75c, fb. \$2.50.

Copenhagen Market

This new



Early Brunswick

Early Brunswick

Danish Ball-Head

The best cab
The best cab-

Danish Ball-Head ping and keeping qualities. Heads perfectly round, very hard, solid and deep and of fine white color, making them different in appearance from any other sort. Quality superior to all the cabbages, and the most profession all the cabbages, and the most profitable shipping variety known. Can supply this in short or long stem. Oz. 25c, 1/4 fb. 85c, fb. \$3.00.

Henderson's Succession troducers say of this cabbage: "We consider it one of our most valuable contributions to horticulture. It would be classed as a second early variety, coming in a few days later than Early Summer, but it is superior to that variety. It is of nearly double the size, and is a second early to the size, and is a second early state. absolutely true to its type under all conditions. It is so finely bred that in a field of twenty acres every head appears alike." Oz. 25c, 1/4 lb. 85c, lb. \$3.00.

Copenhagen Market This new Cabbage is the earliest Ball-shaped variety known. Heads very solid, of wonderful quality, with small cores and weighing from 10 to 15 pounds according to soil and cli-matic conditions. Oz. 40c, 1/4 fb. \$1.50, fb.

(See additional particulars on page 14.)

Early Spring One of the earliest and best of the early sorts, round, compact, medium size, small core and very hardy. Oz. 30c, 1/4 tb. 90c, tb. \$3.00.

Early Winingstadt
reliable favorite. So well known that a description is unnecessary. Oz. 25c, 1/4 tb. 75c, tb. \$2.50.

All-Head Early Our ALL-HEAD value, having fine outer leaves, head very large, very solid, flat but very deep and uniform in size and shape. Fine for Kraut. Planted late makes a fine winter cabbage. Oz. 30c, 1/4 fb. \$1.25, fb. \$3.50.

Flat Dutch winter variety. Very popular on account of size, quality and yield. Oz. 15c, 1/4 fb. 75c, fb. \$2.50.

Late Drumbead One of the old-

Late Drumhead One fash fashioned growing sorts. So well known that a description is unnecessary. Oz. 25c, 1/4 fb. 65c,



Globe Savoy

Excellent quality.

The earliest and sweetest of Savoys or curled cabbages. The head is round, solid. Leaves small, thick, fleshy and of fine deep green color.

Oz. 25c, ½ tb. 75c, tb. \$2.50.

The best of the late Savoys for house use or for the market. The plant is robust with short stem. Is very head Savoy.

Oz. 25c, ½ tb. 75c, tb. \$2.50.

CARROTS, Gelbe Ruben

Carrots to grow to perfection require a deeply cultivated, rich and well pulverized soil. Sow early in the spring as soon as the soil is fit to work, in drills 15 to 18 inches apart, covering one inch deep, and press the soil firmly over the seed. If desired to cultivate with horse, make rows three feet apart.



GUERANDE OR OX HEART CARROT

Early French Forcing
and the best suited for forcing. Tops small, finely
divided. The reddish-orange colored roots are nearly
round. When fully matured they are about 2 inches
in diameter, but should be used before they are full
grown and while young and tender. Oz. 15c, 1b.
\$1.50.

Half Long Nantes

smooth, bright orange; flesh orange, becoming yellow in center, but with no distinct core. Of the finest quality and one of the most symmetrical and handsome of the medium sized sorts; excellent for the market or home garden.

Oz. 15c; tb. \$1.50.

Early Short Horn
Tops small, coarsely divided; roots top-shaped, but tapering abruptly to a small tap; skin orange-red.
Oz. 15c, tb. \$1.50.

Guerande, or Ox Heart Tops small for the size of the roots which are comparatively short but often reach a diameter of 5 inches, terminating abrutly in a small tap root. Flesh bright orange, fine grained and sweet. This variety is especially desirable for soil so hard and stiff that longer rooted sorts would not thrive in it. When young excellent for table use, and when mature equally good for stock. Oz. 15c, tb. \$1.50.

Chantenay

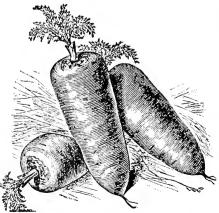
Tops medium sized; necks small; roots tapering slightly but uniformflesh very crisp and tender. Although this is a medium early sort, it furnishes roots of usable size as early as any, is a heavy cropper and is undoubtedly one of the best for both the market and private garden, while its great productiveness makes it very desirable as a field sort. Oz. 15c, 1b. \$1.50.

James Intermediate
and Long Orange. It tapers to a point not so blunt as
the Danvers and is more symmetrical and not so long
as the Long Orange. Oz. 15c, 15. \$1.50.

Long Orange
The most popular of the older sorts. An improvement obtained by years of careful selection of the best formed and deepest colored roots.
Oz. 10c, tb. \$1.00.



CHANTENAY CARROT



DANVERS CARROT

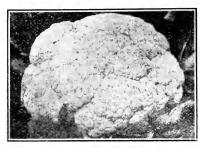
Danvers
ability to all size, coarsely divided. The smooth and handsome roots are deep orange of medium length, tapering uniformly to a blunt point; flesh sweet, crisp, tender and of a deep orange color. Although the roots of this variety are short, they produce as large a bulk as the longer field sorts and are more easily harvested. Oz. 15c, 1b. \$1.50.

White Belgian Grows one-third out of the ground: Root white, green above ground, with small top. Flesh rather coarse. The roots are of large size and the variety is extensively grown for stock feeding. Oz. 10c, 1b. \$1.00.

Improved Short White this distinct variety is destined to take first rank as a field carrot, owing to its enormous productiveness and the ease with which it can be harvested. Oz. 10c, tb. \$1.25.

F. H. EBELING, SEEDS AND HARDWARE CAULIFLOWER, Blumen Kohl

The Cauliflower delights in a rich soil and an abundance of water. Sow seed for an early summer crop in February or March in a hotbed. When plants are three or four inches high, transplant four inches apart in boxes or frames. In the middle of the spring or as soon as deemed prudent, the plants may be removed to open ground. Set plants from 2 to 2½ feet apart each way. For late Cauliflower sow the seed in a cool moist place about June 1st.



Early Snowball

The most popular and profitable of the Cauliflower family. Heads of uniform size, snowy white, very tender, and owing to its attractive appearance a most desirable market variety. This seed is imported from our Denmark growers under contract, being the best known source for Cauliflower seed. Oz. \$2.00, 1/4 tb. \$7.00.

Early Erfurt

Very similar to the Early Snowball, and by some considered worthy of a place alongside with the Snowball. Oz. \$2.00, 1/4 tb. \$7.00.

Extra Early Paris An excellent early sort, and under favorable conditions will produce splendid results. Not as sure a header as the Snowball and Erfurt. Oz. 50c, 1/4 tb.

Early Snowball Cauliflower

CELERY, Selerie

CELERY, Selerie

CULTURE.—Celery seed is slow to germinate, and ample time must be given. Sow thinly; cover lightly. Keep constantly moist. Count on about 7.500 plants per ounce of seed, or ½ pound per acre. When the seedling plants are 3 inches high they should be clipped at the top, to favor stocky growth, or else transplanted. Celery is mostly grown under flat culture, without trenches, in rows 4 feet apart, 6 inches apart in row. For home use celery is often grown in double rows, 10 inches apart, without trenching, and banked for winter storage just where it grows, without lifting.

Golden Self-Blanching This is the very best celery for early use. It is in condition as early in the fall as any, and we have yet to find an extra early sort equal in quality and appearance to our stock of GOLDEN YELLOW SELF-BLANCHING. Critical gardeners and consumers generally depend upon this variety to produce their best early celery. Plants of medium size, compact and stocky—with yellowish green foliage. As they mature the inner stems and leaves turn a beautiful golden yellow, so that blanching is effected at a small expense of time and labor. For beauty, color, crispness, tenderness, freedom from stringedness, added to a fine nutty flavor—it has no equual among the celery family. Oz. \$1.50, ½4 fb. \$5.00, fb. \$18.00.

Columbia An early maturing sort, unsurpassed in shape and quality. Plants of medium height, but very stocky and heavy. The stalks are thick—almost round. Similar to the Giant

of medium height, but very stocky and heavy. The stalks are thick—almost round. Similar to the Giant Pascal. With color of a rich yellow tint. Like the Golden Self-Blanching and which it resembles when trimmed and bunched ready for market. The foliage of a light shade of green tinged with yellow. Follows the Golden Self-Blanching. Quality exceptionally fine. Some connoisseurs consider it equal to the Golden Self-Blanching. Oz. 50c, 1/4 fb. \$1.75, fb. \$6.00.

White Plume

Calcium and the color of the color of the color, owing to its very attractive appearance. Requires a short time only for blanching. Leaves light green with tips almost white. As the plants mature the inner stems and leaves turn white, and



celery for family use. Oz. 75c.

Giant Pascal

A splendid green leaved late variety, fine for fall and early winter use. It blanches to a beautiful yellowish white color. Very solid and crisp and of a fine nutty flavor. Stalk of medium height, very thick. The upper portions nearly round. Splendid for fall and winter use, especially in the South. Oz. 25c, 1/4 fb. 75c, fb. \$2.50.

Winter Queen

HEARTWELL as a winter keeper. It is also much stouter, thicker and heavier with double the amount of heart of any known celery. Oz. 25c, 1/4 fb. 75c. fb. \$2.50.

F. H. EBELING, SEEDS AND HARDWARE

CELERIAC, or GERMAN CELERY

The best of all with a large smooth root of splendid quality. Pkt. 10c, Oz. 40c.

Not as smooth as the Prague, but of equal quality and good form. Pkt. 10c, Oz. 40c.

This is the most popular and best known variety. Per pkt. 5c, per Large Smooth Prague Apple Shaped

Turnip Rooted oz. 15c.

CHICORY, Chichorie

Improved Large leaves, suitable for greens. Oz. 15c, tb. 75c. Large Rooted Sort Used for coffee. Oz. 15c, 1b. 75c,

SWEET CORN

A rich, warm, alluvial soil is the best, but excellent sweet corn can be raised on any good, ordinary soil, if it is deeply and thoroughly worked before planting. In the North sweet corn should be planted as early as can be done without risking great loss from frosts or from rotting of the seed in the soil. If planted in rows, make the rows about three and one-half feet apart and place the seed fourteen to sixteen inches apart in the row, covering one inch deep with fine soil firmly pressed down. If planted in hills, make the hills for the early varieties three feet apart each way and plant six kernels to the hill. For the later sorts the hills should be not less than three and one-half feet apart each way. Hoe frequently, and when six inches high leave three or four plants in the hill. Give frequent and thorough but shallow cultivation until the tassels appear.

Mammoth White Cory

We consider this unquestionably the best extra about four feet high, each generally bearing two large, finely shaped ears which become fit for use as early as those of any variety in cultivation. They are twelve-rowed, six to seven inches long, ery symmetrical and handsome, seldom with any opening between the rows at the base. Grain large, broad, very white and of remarkably good quality for such an early sort. The size and beauty of this variety give it ready sale even when the market is overstocked. Qt. 25c, 4 Qts. 75c, Bu. \$5.00.

Crosby's Early
A most excellent early variety of fine quality. Ears five and one-half to six and one-half inches long, fourteen rowed or more, with short nearly square grains which are very white, sweet and tender. Plants about four and one-half feet high. This is the sort so largely grown in Maine for canning and it is the use of this variety rather than any peculiarity of soil that has given Maine sweet corn its reputation for quality. Qt. 25c, 4 Qts. 75c, Bu. \$5.00. \$5.00.

Burbank's Early White

Burbank's Corn

earlier than the Golden Bantam. Kernel

white, surprisingly productive, very sweet

and unusually early. Ears of good size and very uniform.

Especially fine for the market gardener's extra early trade,

We have a small quantity only to offer this season and which

we will distribute in small lots to our trade and especially to

the market gardeners. Qt. 40c, 1/4 bu. \$2.00.

Golden Bantam

An early sweet corn with golden yel
low grain, very tender and of excel
low grain, very tender and of excel
flavor is exceptionally rich and delicious. Height 4 to 5 feet.

Our stock has been very carefully selected during several

seasons and will be found decidedly superior to much that is

offered. Qt. 30c, 4 Qts. \$1.00, Bu. \$6.00.

80 Day Monarch

Best main crop for truckers. Intro-

offered. Qt. 30c, 4 Qts. \$1.00, Bu. \$6.00.

80 Day Monarch

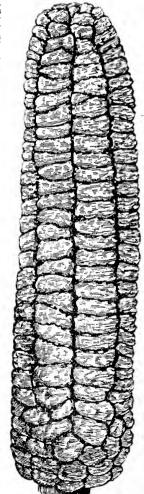
Sweet, and of extra high table quality. It almost always yields two perfect ears to the stalk, the ears being 9 to 12 inches long compactly filled with grains from end to end. Ears ready for use a few days later than Mammoth White Cory, but much larger. Kernels large, tender and deliciously sweet. Ears are 12-rowed, and the tips are always filled out. Stalks of great vigor, about 6 feet high. It is a pink-cobbed variety, and preferred by many people on that account. Qt. 30c, 4 Qts. \$1.00, Pk. \$1.75, Bu. \$6.00.

Pk. \$1.75, Bu. \$6.00.

Kendel's Early Giant Remarkably large in ear for a second early sort and very popular in some localities. The stalks are about five and one-half feet high. The ears are about eight inches long, twelve rowed. The grain is rather broad and shallow, and the quality very good. Qt. 25c, 4 Qts. 75c, Bu. \$4.75.

Perry's Hybrid This is a very popular Eastern variety. Stalks about six feet high, bearing two ears about eight inches long, twelve or fourteen rowed, which often have a red or pink cob; grain medium sized, cooking very white and tender. Matures a little later than Early Minnesota. Qt. 25c, 4 Qts. 75c, Bu. \$4.75.

Black Mexican This corn, when in condition for the table, cooks a bluish black. It is surpassed by none in tenderness and is a most desirable second early sort; ears about eight inches long, usually eight-rowed. Qt. 25c, 4 Qts. 75c, Bu. \$4.75.



Early Evergreen We have tested many samples of Evergreen corn that were claimed to be earlier than Stowell's Evergreen and to be just as good, but we have never found any of them so valuable as the stock of this variety we offer. It has been proven both on our trial grounds and in the field to come into fit condition for use much earlier than Stowell's Evergreen and to remain in condition quite as long. Ears about seven inches long, with fourteen to twenty more or less irregular rows with very deep grain which is of the very best quality. Plants average from six and one-half to seven feet high and in ear resemble those of Stowell's Evergreen, but differ in earliness and we think are more uniform. A standard main crop variety for home garden and market; also well adapted for canning. Qt. 25c, 4 Qts. 75c, Bu. \$5.00.

Stowell's Evergreen

This standard main crop variety excels all other late sorts in sweetness and productiveness. It is more popular than in sweetness and productiveness. It is more popular than any other for canning, for marketing and for the home garden. Great care has to be exercised in the selection of stock to grow seed from, as this variety has a tendency to deterioration and a shorter grain, which makes it less sugary and desirable. We have a large and growing trade among canners and market gardeners who must have a genuine Stowell's Evergreen, and our stock is known as the safest seed for all purposes. Qt. 25c, 4 Qts. 75c, Bu. \$4.00.

Bu. \$4.00.

Country Gentleman

There is no sweet corn that compares with the Country Gentleman for sweetness. It is the variety par excellence where tleman for sweetness. It is the variety par excellence where class restaurant trade use this as a main crop in preference to any other. For home use it will be found superior and it is very productive. The fact that it is a favorite variety with canners proves its merit.

Larly White Cob Cory

Kernels are large. Of good quality. Qt. 25c, 4 Qts. 80c, Bu. \$5.00.

Early Red Cob Cory

does especially well in the coast counties. We have customers who will not plant any other sweet corn than Red Cob Cory.

Qt. 25c, 4 Qts. 75c, Bu. \$5.00.

CORN SALAD, Ackersalat Large round leaved or small seeded. Oz. 10c, 1b. 75c.

CHERVIL, Gartenkerbel

Curled Treat like parsley. A valuable flavoring herb. Oz. 20c, fb. \$2.00.

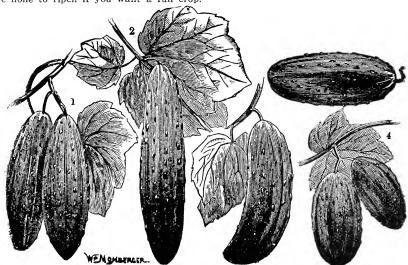
CRESS OR PEPPERGRASS, Kresse

Fine for salads. Garden curled. Oz. 10c, tb. 75c.

Water Cress, Dwarf Fine curled, grows in shallow water. Oz. 20c, tb. \$2.50.

CUCUMBERS, Gurke

CULTURE.—Flourish best in a rich, warm, sandy loam. Sow when danger of frost is over in hills four or five feet each way. As the young plant has many enemies sow thickly half an inch deep, and thin out finally to three or four plants to the hill. Use one ounce of seed to 75 hills, two to three pounds to the acre. Gather cucumbers by cutting, not tearing. Leave none to ripen if you want a full crop.



The Above Shows the True Type of Cucumbers
No. 1, Early Cluster; 2, Long Green; 3, Early Frame; 4, Early Russian; 5, White Spine Early Russian The earliest variety and probably the hardiest. Fruit 3 to 4 inches to 2 inches in diameter, oval, pointed at both ends and to \$\frac{1}{2}\$ to 2 inches in diameter, oval, pointed at both ends and to \$\frac{1}{2}\$ to \$\frac{1}{2}\$ inches in diameter. Oz. 10c, \$\frac{1}{4}\$ th. 30c, th. \$\frac{1}{2}\$1.00.

Early Cluster
largely near the root.

Early Frame, or Short Green
small, attractive and of excellent quality.

Improved White Spine, or Arlington
Peerless White Spine
Larger than Improved White Spine
Cz. 15c, ¼ tb. 30c, tb. \$1.00.

Larger than Improved White Spine
Dopular with some for pickling and is especially desirable, when mature, for sweet pickles.

Vine of strong, vigorous growth, and productive.

Cumberland
Cumberland
A distinct variety of the hardy White Spine type.

An early and very productive variety. Fruit small, thick at the end, dark green, but lighter at blossom end, borne in pairs or clusters and clusters and lathough type.

Fruit short, straight, small at each end, bright green, lighter at blossom end, and, although Used both for slicing and pickling. Vine vigorous and productive.

Oz. 10c, ¼ tb. 30c, tb. \$1.00.

Great bearer; standard for outdoors.
Oz. 15c, ¼ tb. 30c, tb. \$1.00.

Fruit from 10 to 12 inches long, dark green, very firm and crisp. It is used largely for slicing, but on account of its firmness and crispness is for pickling and is especially desirable, when mature, for sweet pickles.

Cumberland
A distinct variety of the hardy White Spine type. Fruit large, symmetrical, dark green and thickly set with fine spines. Though especially prolific, bears a long time.

Oz. 15c, ¼ tb. 40c, tb. \$1.25.

Japanese Climbing

1/4 tb. 30c, tb. \$1.00.

1/4 fb. 30c, fb. \$1.00.

Boston Pickling
Chicago Pickling
best for the purpose, combining almost every good quality, and being alike satisfactory to grower and pickle maker. I have a choice strain of this seed. Oz. 10c, 1/4 tb. 30c, tb. \$1.00.

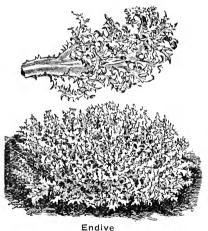
Rollison's Telegraph
A standard greenhouse variety. English greenhouse grown which purpose it is in high favor. Makes handsome pickle of first-class quality. Oz. 20c, 1/4 tb. 50c, tb. \$1.50.

EGG-PLANT, Eierpflanze

CULTURE.—Plant the seed in March in a hotbed, or, for family use, in flower pots in a warm window. Transplant in open ground after weather has become warm and settled, in rows two feet apart each way. They require rich soil and as favorable a location for warmth as the garden will afford. One ounce to one thousand plants.

Considered the earliest of the large fruited varieties. Color, a rich purple. Oz. 35c, ¼ tb. \$1.00, tb. \$3.75.

Surpassing all in size of fruit. Standard market sort. Oz. 35c, ¼ tb. \$1.00, tb. \$3.75. Black Beauty New York Improved Purple



ENDIVE, Endivie

CULTURE.—For early use sow as soon as the ground can be worked in the spring, in drills 15 inches apart, and thin plants to 6 to 8 inches in a row. Any common garden soil will do, but a rather moist situation is preferable. To blanch a rather moist situation is preferable. To thatch the leaves, gather them carefully together when perfectly dry, and tie with matting or any soft fibrous material. Another method is to invert flower pots over the plants. The leaves are very highly esteemed for use as salads. One ounce will sow 150 feet of drill.

Fine Moss Curled than the London. Oz. 15c, 1/4 tb. 40c, tb. 31.25. London Green Curled A standard sort. Oz. 15c,

1/4 tb. 40c, tb. \$1.25. Broad Leaved Batavian Summer variety. Oz. 15c, 1/4 fb. 40c, fb. \$1.25.

GARLIC, Knoblauch

Sets, Oz. 10c, 1b. 40c. **HERBS**

See page 34.

KALE, or Borecole

For early use, sow in May and transplant in June, and treat generally as for cabbage.

Dwarf Curled Scotch $^{\Lambda}_{1/4}$ standard variety. Oz. 10c, $^{10}_{1/4}$ 1b. 25c, 1b. 75c.

KOHL-RABI

White, above ground. Oz. 25c, tb. \$2.00. Purple, above ground. Oz. 25c, tb. \$2.00. LEEK, Lauch

American Broad Flag The standard variety. 15c, 1/4 tb. 40c, tb. \$1.25. Oz.



Kohl-Rabi

LETTUCE, Salat

CULTURE.—Lettuce thrives on nearly all soils, but because the growth should at all times be rapid to insure crispness and best flavor, the soil should be heavily enriched and well worked before planting. Lettuce being quite hardy, seed may generally be sown as soon as ground can be fitted, as, while prolonged or continued freezing will kill the plants, they are but little injured by an ordinary frost. Seed may also be sown in the hotbed in gentle heat, and the plants, if well hardened by having been often exposed to the air, may usually be set in the open ground very soon after the time suggested for sowing seed outdoors.



Big Boston duces fine large white, crisp, tender and sweet.

The best large heading and suitable for forcing. It prowing the white, crisp, tender and sweet.

The best large heading and suitable for forcing. It prowing the provided heads are with the provided heading and sweet.

Pkt. 5c, Oz.

Black Seeded Simpson The most popular loose leaf variety. Crisp and tender. It grows a fine green leaf. The inner leaves form a loose head. Pkt. 5c, Oz. 15c, fb. \$1.25.

Simpson Early Curled Seeded)—A Seeded)—A Seeded or clustering variety. Leaves light green, slightly frilled and much blistered. Crisp, sweet and tender. Especially adapted for thick sowing. Very fine for poultry feeding. Pkt. 5c, Oz. 15c, fb. \$1.25.

Big Boston Lettuce
Big Boston Lettuce
Being fit for cutting. The plant is upright, forms a loose cluster of large thin bright green leaves, savoyed, finely crumpled at the edges. Very attractive and desirable for garnishing.

Pkt. 5c, Oz. 15c, tb. \$1.50.

Onondaga
This remarkable variety was introduced by us many years ago. A splendid greenhouse sort, slightly fringed, forming a semi-head, a wonderful shipping and keeping variety, green under glass and of slightly reddish cast when grown in the open.

Tender, crisp. Pkt. 5c, Oz. 15c, tb. \$1.50.



Hanson Head (Seed white.) A very tuce. The plant is compact and forms a cabbage-like head which remains in condition longer than

like head which remains in condition longer than summer-head sorts. Outer leaves bright, yellowish green and broad. Somewhat crumpled and frilled edge and with a distinctive mid-rib. Inner leaves white, crisp and sweet. Pkt. 5c, Oz. 15c, fb. \$1.50.

Paris White Cos in Fig. Cos Lettuce differs sorts. Head being elongated and of conical form, about nine inches in height and about six inches in diameter. Outer coloring yellow green. To secure best results it should be tied up. Pkt. 5c, Oz. 15c, fb. \$1.50.

Yellow Seeded Butter Cabbage Butter head, medium large, medium green, leaves crumpled and rather thick. Is similar or same as silver ball. Pkt. 5c, Oz. 15c, tb. \$1.25.

Deacon Head Cabbage Butter head, meleaves thick. Does not form a decided head but a

Grand Rapids Lettuce leaves thick. Does not form a decided head but a well folded one, which is very oily and golden yellow inside. Pkt. 5c, Oz. 15c, tb. \$1.25.

New York Head Curled or crisp as Iceberg, dark green heads somewhat conical. Old Lettuce Seed for Rind.

Old Lettuce Seed for Birds Oz. 5c, tb. 50c.

MUSKMELON, Melone

The Muskmelon succeeds best in warm, rich soil. While both plant-food and humus are necessary to all plants, all vines require an extra amount. Manure contains both, while rotted turf and commercial fertilizer combined supply both. If manure is used it should be well rotted, finely pulverized and evenly distributed throughout the soil. If plant-food is to be supplied by the use of commercial fertilizers, then land should be selected which, a short time before, was in grass, the turf well pulverized and the fertilizer, like the manure, evenly distributed. The muskmelon should not be planted until all danger of frost is past. Plant from 4 to 5 feet apart each way, allowing ten or more seeds to each hill, and cover with an inch of soil. If young plants are attacked by the striped beetle, dust with either air-slaked lime, soot or ashes, well diluted with fine road dust, taking care, however, that none of these is used too freely. Thin to three or four plants to the hill.

Paul Rose, or Petoskey of the former with the appearance of the Gem. Fruit oval, finely netted, about 5 inches in diameter. Flesh rich orange and even sweeter than the Osage. Oz. 10c, 1/4 tb. 40c, tb. \$1.00.

Emerald Gem
in richness and flavor. More certain to produce uniformly good melons than is perhaps any other variety. Oz. 10c, 1/4 tb. 40c, tb. \$1.00.

Rocky Ford (Netted Gem)
More largely grown than any other of

the small or basket melons and shipped in enormous quantities from Colorado and Arizona. Fruit oval, slightly ribbed, densely covered with fine netting; flesh green. thick, very sweet and of rich flavor. Oz. 10c, 1/4 tb. 30c, tb. \$1.00.

Improved Green Nutmeg

ends, ribbed and covered with coarse netting; flesh thick, of fine flavor. Vine vigorous and productive. Oz. 10c, 1/4 tb. 30c, tb. \$1.00.

tb. \$1.00.

Fruit oval, slightly ribbed, netted in places, skin yellowish white; flesh deep salmon, of Vine hardy, productive and bears early. Oz. Surprise good quality. good quality. Vine ha 10c, $\frac{1}{4}$ fb. 40c, fb. \$1.00.

good size, Flesh Extra-Early Hackensack Fruit of good nearly round.

reen, a little coarse, but very juicy and sweet, and of good flavor. Vine very productive.

Oz. 10c, 1/4 tb. 40c, tb. \$1.00.

Hoodoo

The Hoodoo was originated by Mr. Paul Rose, who sent out that famous melon that bears his name. Our stock was raised by a firm at Rocky Ford, Col., where the best of melons are grown and shipped to all parts of the country. Melon nearly round and orange-fleshed; vine very vigorous, with no sign of rust; a fine cropper. Quality of the best. It varies more or less in size and shape. Oz. 10c, 1/4 lb. 40c, lb. \$1.25.



Rocky Ford Muskmelon

WATERMELON, Wassermelone

Sweet Heart

Introduced in 1894 and is very popular as a shipping melon particularly in the South. Vine vigorous and very productive, ripening its fruit evenly. Fruit of largest size, oval, very heavy, rind thin but firm; color very light green, very slightly veined with a little darker shade. Flesh bright red, firm but very tender and sweet. Fruit remains in good condition a long time after ripening. Seed black. Our stock will be found very uniform in shape, size and color. Oz. 10c, fb. 75c.

Cuban Queen

This magnificent variety was originally brought from the West Indies, and seed first offered in 1881. The melons are of large size, oblong in form, slightly tapering at the stem end. Skin beautifully striped in dark and light green. Rind quite thin, but tough enough for shipping. Flesh bright red, remarkably firm, and of luscious quality. Oz. 10c, fb. 75c.

Sweet Heart

Most popular for market. Large heavy fruits of oval or round form; skin very pale green with distinct netted lines of a slightly darker shade. The large handsome fruits bear shipping well. The solid flesh is a deep rich red, crisp and melting. Its luscious quality has made it a leading favorite in the Philadelphia markets. Oz. 10c, fb. 75c.

Dark Icing or Ice Rind

Fruits of round or shortened oval form with Jarker.

Dark Icing, or Ice Rind

Fruits of round or shortened oval form, with dark-green skin. Flesh deep pink, very sweet and melting. Justly popular with New Jersey truckers, as its noted fine quality makes the melons sell well on the markets.

Oz. 10c, tb. 75c.

Sometimes sold as Ice Cream. One of the best early sorts for the home garden and for market gardeners who deliver direct to consumers. Vine moderately vigorous, hardy, productive. Fruit medium sized, oval, but somewhat uneven in shape, bright green, finely veined with a darker shade. Rind thin, flesh bright scarlet, solid, crisp and very sweet. Seed white.

Oz. 10c, tb. 75c.

Cole's Early A very early melon; just right in size and shape. Oz. 10c, tb. 75c.

MUSHROOM

The Mushroom is an edible fungus of which there are numerous varieties. We handle the ordinary commercial variety of a creamy white color with loose gills which underneath are of pinkish-red, changing to liver color. The mushroom produces "seed" or spores and there is developed a white, fibrous substance in broken threads, called spawn, which is developed and preserved in horse manure, pressed in the form of bricks. Mushrooms can be grown in cellars, in sheds, in hotbeds or sometimes in the open air, the great essential being a uniform degree of temperature and moisture. Our space is too limited here to give the necessary cultural directions, but these are published in book or pamphlet form.

Pure Culture Mushroom Spawn

By a newly discovered process of selection and grafting, the spawn is scientifically propagated so that large, vigorous and finely flavored mushrooms are reproduced. The sort we offer is earlier, more productive and a marked improvement on wild spawn, either French or English. Brick (about 11/4 tbs.) 25c; 5 bricks \$1.00.

MUSTARD

Mustard is not only used as a condiment, but the green leaves are used as a salad or cut and boiled like spinach. Sow as early in the spring as the ground will permit, in drills about eighteen inches apart, covering one half inch deep. For succession, sow every few weeks till autumn. Water freely. In the South the seed may be sown in autumn and the plants used

autumn. Water freely. In the South the seed may be sown in autumn and the plants used early in the spring as a salad and for greens.

White English
Leaves comparatively small and smooth, deeply cut or divided and of medium dark green color. Plant upright, of rapid growth and soon that of other varieties.

Oz. 10c; tb. 40c.

Southern Giant Curled
Leaves large, light green with tinge of yellow, much crimped and frilled at edges. Plant upright or slightly spreading in growth. Highly esteemed in the South for its vigorous growth, hardiness and good quality. Seed small, reddish brown to nearly black. Oz. 10c, tb. 75c.

NASTURTIUM

Tall Mixed Garden

Sometimes called Indian Cress. Grown not only for ornament but the beautiful orange colored flowers and foliage are used for garnishing and the young leaves or shoots are excellent for salads. The green seed pods are greatly esteemed by many for use in mixed pickles. Early in spring sow, preferably in rather light soil, in rows 3 feet apart and 2 inches apart in the row, covering one inch deep. When the young plants are about four inches high thin to six inches apart in the row. The vines can be supported if so desired by stakes, strings or brush. Oz. 10c, 1b. 75c.. For other varieties of Nasturtium see flower seed pages.

OKRA, OR GUMBO

The young seed pods are used in soups, stews, catsups, etc. Highly esteemed in the South. After danger of frost is past, the ground being warm and in good condition, plant in rows about two and one-half feet apart, covering with about an inch of fine soil firmly pressed down. When about three inches high, thin to about one foot apart in the row. Cultivate and keep free from weeds. The pods are in best condition for use when from one to three

White Velvet Plant is about three and one-half feet high, early maturing and very productive. Pods white, long, smooth and are tender until nearly full sized. Oz. 10c, 1b. 60c.

ONIONS, Zwiebel

How to Raise Onions for the Market

Prizetaker

Grows to an immense size and for fall marketing is unexcelled. Although of such great size, it is very hardy and a fair winter keeper, as it ripens up hard and firm; very fine grained, and of mild, delicate flavor. The outside skin is rich yellow while the flesh is white. To get the best results from this onion the seed is sown in beds and transplanted. It will, however, make a good crop if sown in the ordinary way.

Oz. 25c, tb. \$1.50.

Southport White Globe

This grows to a very large size and is a perfectly globe-shaped onion. Color is a clear pure white. This variety is used

perfectly globe-snaped onton. Color is a clear pure white. This variety is used by the market gardeners for bunching. Oz. 25c, fb. \$2.50.

Early Flat Yellow Danvers
A good variety, but not as round or quite as early as the Yellow Globe Danvers. Very productive. Oz. 20c, fb. \$1.50.

Southport Yellow Globe

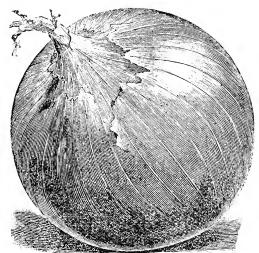
A large perfectly shaped Globe onion and an excellent onion for keeping throughout the winter. A very heavy cropper, handsome in appearance and good dark yellow color. Oz. 20c, fb. \$1.50.

Yellow Globe Danvers

This fine onion is of large size. An early and abundant cropper. Bulbs very thick, flat or slightly convex bottoms, full oval top with small neck and rich brownish yellow skin. Oz. 20c, fb. \$1.50.

Michigan Yellow Globe

The bulbs are large and uniformly spherical with very small necks and the largest diameter below the center of the bulbs, of a rich orange color. Oz. 20c, Tb. \$1.50.



Yellow Globe Danvers Onion

Ohio Yellow Globe
An early Globe onion, small neck and very uniform in size and color. Very popular in the marsh onion sections of Ohio and Southport Red Globe
This is a fine keeper. Large size and considered one of the best red onions. Flesh is fine grained, very mild and

tender. Oz. 20c, 1b. \$1.75.

White Portugal American Silver Skin. This is the best sort to sow—for onion sets or for pickling. When sown thickly for either it makes a small, round, hard bulb. Oz. 30c, tb. \$2.50.

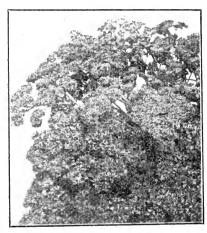
Philadelphia Silver Skin Very desirable for are good keepers. Oz. 30c, tb. \$2,50.

Very desirable for family use. Flavor mild and pleasant. Skin silvery white. Sets grown from this sort

Large Red Wethersfield We have a very fine and select strain of this sort. Color is deep purplish red, flesh white, moderately grained and very firm. Yields an enormous amount per acre, and is one of the best winter keeping onions. Oz. 20c, 7b. \$1.50.

Extra Early Flat Red This variety matures from ten days to two weeks earlier than the Red Wethersfield. The color is a deep rich red, fine grain and close. Oz. 20c, tb. \$1.50.

PARSLEY, Peterselia



Double Curled Parslev

CULTURE.—Sow seeds in shallow drills in the early Spring for border, or in rows 12 to 18 inches apart, care being taken that the drills be not more than one-half inch in depth, and that the seed be well pressed down after sowing, as the seed germinates very slowly, three to five weeks elapsing sometimes before it makes its appearance. Use one ounce to 150 feet of drill. three pounds to an acre. Cultivate frequently.

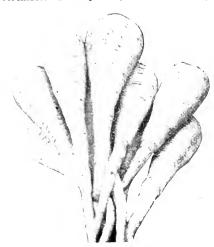
Plain Parsley The leaves of this variety are flat, deeply cut but not curled. Very desirable for flavoring soups and stews and for drying. It is a favorite on account of its very dark green leaves, as well as its hardiness. The curled sorts are very extensively used for garnishing. Pkt. 5c, Oz. 15c, 1b. \$1.50.

Champion Moss Curled

This is a vigorous, compact growing variety, excellent for garnishing and flavoring. A hondsome decorative plant. Leaves very finely cut and so closely crisped or curled as to resemble bunches of moss. Fine deep green color and very attractive foliage. Pkt. 5c, Oz. 15c, tb. \$1.50.

PARSNIPS. Pastinake

CULTURE.—Sow in early spring, in rows two to three feet apart, thin to four or six inches in the row. One ounce of seed will sow 200 feet of drill, four to five pounds per acre in drills two and one-half feet apart. Cover the seed one-half inch. Use rotted manure and fertilizer. Parsnips may be left in the ground all winter.



"Kelway's Don" Parsnip

Marrow Parsnip
This is a fine new Parsnip of English origin which we confidently offer to our trade. It is very fine grained and exceedingly sweet, while the peculiar parsnip flavor is fully reserved. The roots are unusually smooth and attractive in appearance. The best of all parsnips for private or market garden use.

Oz. 15c, fb. 75c.

Kelway's Don A half long variety of our introduction, selected for handsome form, size, whiteness of skin and flesh, and firmness and solidity of texture. Recommended for exhibition (see illustration). Oz. 15c, 1b. \$1.00.

Gurnsey (Improved Half-Long)

Greatly improved strain. The roots do not grow as long as the Hollow Crown, but are of greater diameter and very easily gathered. A very heavy cropper. Roots very smooth. Flesh fine grained and of excellent quality. Oz. 10c, 1b. 75c.

Improved Hollow Crown

This really is the greatest old-time favorite among the parsnips and has a host of friends which it will never lose. It is very smooth, white with a very thick shoulder and tapering down to a graceful point. One of the best known, none better. Oz. 10c, tb. 75c.

PEAS, Erbsen

For early peas the soil should be light and warm, but for general crop a moderately heavy soil is better. Fresh manure and very rich or wet mucky soil should be avoided, as they cause a rank growth of vine at the cost of the quality of the peas; such soil is often the cause of early sorts maturing unevenly. Sow as early as possible a few of some early variety on warm, quick soil, prepared the fall before, planting in double rows six to eight inches apart and two and one-half to four feet between the double rows. The general crop can be delayed until later, but we have met with better success from sowing all the varieties comparatively early, depending for succession upon selecting sorts that follow each other in maturity. The peas will give quicker returns if covered only one inch deep and where earliness is most important they may be treated in that way. Larger pods and more of them will be produced if the seed be planted in trenches three to six inches deep and covered with only one or two inches of soil; when the plants are five or six inches high fill the trench level with the surface; this will secure deep rooting, prevent mildew and prolong the bearing season. If the peas be covered to the full depth at first, or if water be allowed to stand in the trenches, they will not germinate or grow well. All varieties growing more than one and one-half feet do better if staked up or brushed when four to six inches high. The support is usually given by sharpened branches of trees set between the double rows.

Earliest of All, or Alaska

By careful selection and growing we have developed a stock of this smooth blue pea of unequaled evengreen peas of good flavor. Vines of medium height, about two and one-half to three feet and of distinctive light color. Pods of good size, about two and one-half to two and three-fourths inches long. Seed small, smooth, and bluish green in color. Matures all the crop at once and is an invaluable variety for market gardeners and canners.

Qt. 25c, Bu. \$6.00.

Thomas Laxton

A very early wrinkled variety of great merit. Vine vigorous, of medium height, about three feet, similar to that of Gradus, but darker in color, hardier and more productive. Pods large, often four inches long, with square ends, similar to but larger, longer and darker than those of Champion of England and as uniformly well filled. The green peas are very large, of fine deep color and unsurpassed in quality. We are certain that the earliness and productiveness of this pea need only to be known to make it one of the most popular sorts for the market and home garden, as in appearance and quality it is one of the very best varieties yet produced. Qt. 40c, Bu, \$10.00.

Gradus

A very early, wrinkled pea. Vine similar in appearance to Telephone, but of medium height, only about three to three and one-half feet. The pods are very large, about four and one-fourth inches long, very nearly as large as those of Telephone, uniformly well shaped, pointed, handsome and more attractive than those of the first earlies. Peas very large, of splendid quality and beautiful light green color which they retain after cooking. Practically the same as Prosperity. Qt. 40c, Bu. \$10.00.

American Wonder

Vigorous, productive vines, with a luxuriant foliage, and producing the leaves on one side of the stock, growing from 9 to 12 inches high. On account of its dwarf habit of growth it is very desirable for private garden use. Pods are light colored, straight, round, about two and one-half inches long and blunt at the end. Fit for picking fifty-five days from planting. Seed is wrinkled, green. medium in size and square at the ends. Qt. 30c, Bu, \$7.50.

Nott's Excelsior

Resembling Gems in habit, but more dwarf and uniform in growth, height 12 to 17 inches, with rather light foliage. Pods are light in color, round, about two and one-half inches long, blunt at the ends. Fit for picking fifty-six days from planting. Seed green, wrinkled, medium in size and square at the ends. Qt. 30c, Bu. \$7.50.

Little Marvel

We are sure that as soon as American gardeners, whether for pleasure or profit, become acquainted with Little Marvel they will drop both Little Gem and Nott's Excelsior, popular as these two varieties are today. The vines, of dwarf even growth, average fifteen inches in height and are heavily set with fine pods, frequently borne in pairs. The pods average two and one-half inches in length, are square at the bottom and well filled with six to seven quite large, deep green peas. The peas are ready for the table fully as early as American Wonder or Nott's Excelsior, while the pods are larger and the vines produce a much heavier crop. All who desire a fine early crop of the choicest quality of wrinkled peas will be delighted with Little Marvel. Qt. 40c, Bu. \$10.00.

Premium Gem

Desirable early green wrinkled dwarf variety similar to but better than McLean's Little Gem. The vine is very productive and grows to a height of from fifteen to eighteen inches. The pods are of medium size and crowded with six to eight very large peas of fine quality. The seed is green, large, wrinkled, often flattened. Qt. 30c, 4 Qts. \$1.00, Bu. \$6.00.

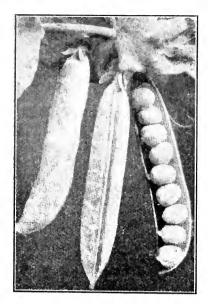
Laxtonian

This handsome new wrinkled pea is the largest podded of the dwarf varieties on our list. The beautiful dark green pods are similar to Gradus in shape and splendid quality, are very nearly as large in size and mature a little earlier. The vines are vigorous and productive, averaging 15 to 18 inches high; foliage dark green; pods about four inches in length. Seed light green, large, wrinkled, flattened, irregular in shape. Qt. 40c, Bu. \$12.00.

Potlatch
Strong, vigorous vines of even growth, 20 to 24 inches in height, with luxuriant dark foliage, bearing pods medium green in color three and one-half to four inches in length. Broad and pointed at the ends. No variety known will produce more pods, and no pods could possibly shell out better. The Potlatch is a variety from which anyone may expect great things. Fit for table use 61 days from planting. Seed green, wrinkled, large in size. We consider ourselves very fortunate in having secured and introduced this pea. Qt. 40c, Bu. \$10.00.

McLean's Advancer

A green, wrinkled variety of medium height, about two and one-half to three feet, with long, broad pods, about two and three-fourths to three inches long, which are abundantly produced and well filled to the ends. This pea is used very extensively by market gardeners because of its productiveness, the fine appearance of its pods, and is popular with consumers on account of its quality. It is also largely used by canners. By careful selection we have developed a strain showing marked improvements in vigor of plant, size of pod and productiveness. Qt. 30c, Bu. \$6.00.



Telephone Peas

Duke of Albany
type; remarkably hardy in growth, producing dark green pods of large size, well filled with extra large sweet peas. The vines grow three feet in height and are very productive. Qt. 35c, Bu. \$7.50.

This has become the leading pea Telephone
This has become the leading pea with market gardeners whose trade appreciates fine appearance and high quality. Vines tall and vigorous, growing about four feet high, with large, coarse, light colored leaves and producing an abundance of pointed pods of largest size, often four and one-half to five inches lelephone long, attractive bright green, filled with very large peas which are tender, sweet and of excellent flavor. It comes into use soon after the Premium Gem and is one of the best sorts for either home or market. Qt. 35c, Bu. \$7.50.

Alderman
carly main crop variety of the valuable Telephone type. The vines are tall growing, about four and one-half to five feet high, dark green, vigorous and exceedingly productive. Pods of largest size, often five to five and one-half inches long, dark green, similar to but a little larger and a shade darker in color than Duke of Albany and about the same in season. The peas are of largest size and unsurpassed in quality. Market gardeners are demanding the large podded, dark colored sorts which retain their fine appearance even after shipping a long distance. The Alderman answers these requirements and furthermore is the most productive variety of this class. We recommend it unreservedly. Qt. 35c, Bu. \$7.50. This comparatively new pea is

1 elegraph, or Long Island Mammoth

Stronger growing and hardier vine with darker foliage and pods than the Telephone; peas very large and of dark green color; seed almost smooth. Vines tall, about four to four and one-half feet. Pods very large, about four and one-half inches long. A splendid sort for the market garden; will give good returns even under conditions that would cause most varieties to fail. Qt. 30c, Bu. \$6.50.

Later Varieties

Improved Stratagem

Most stocks of the large podded, semi-dwarf, English varieties of type as to disgust American planters, but by constant effort we have developed a stock which comes true and we do not hesitate to pronounce it one of the best of the large podded sorts. The pods are of largest size, long and pointed, dark green, and uniformly filled with very large, dark green peas of the finest quality. Qt. 30c, Bu. \$7.00.

Horsford's Market Garden on our list. Foliage dark green, leaves small. Pods contain five to seven medium sized, sweet, dark green peas which retain well their color and sweetness after canning. Qt. 30c, Bu. \$7.00.

Champion of England

A very productive variety, universally admitted to be one of the richest and best flavored of the late peas. The vines are four to five feet high. The seed is light green and much shriveled. Very inferior and mixed stocks of this sort are frequently offered, but when the seed is as well grown and selected as that we offer we consider the variety equal in quality to any in cultivation and one of the best of its season, either for the home garden or market gardener. Qt. 30c, Bu.

Melting Sugar (Edible pods) There is a class of peas not generally known in this country but much used abroad in which the sweet, brittle and succulent pods have none of the tough, inner lining found in the ordinary varieties of garden peas. They are used in the same way as snap or string beans. Qt. 30c, Bu. \$6.00.

Large White Marrowfat of strong growth. The pods are large, cylindrical, rough, light colored, and well filled; seed large, smooth, round and light yellow. The variety is excellent for summer use but is inferior in quality to most of the newer sorts, although undoubted vone of the most productive of the garden varieties. Qt. 25c, Bu. \$6.00.

Large Blackeye Marrowfat An excellent variety, growing about five feet high. It is a very prolific bearer of large pods. Seed large, smooth, round, light yellow with black eye. One of the very best of the Marrowfat sorts. Qt. 25c, Bu. \$6.00.

PEPPER, Pfeffer

Peppers are most largely used for seasoning meat and vegetable dishes; also for making chow chow and chili sauce. The culture is the same as for egg plant and the plants need quite as much heat to perfect them. Sow seed early in hotbed, or about middle of spring in open seed bed, the soil being light and warm. When three inches high transplant in rows about two and one-half feet apart and two feet apart in the row. Cultivate and keep free from weeds. Guano, hen dung or any other bird manure hoed into the surface soil when the plants are about six inches high will undoubtedly increase the product.

Red Cherry

A second early sort. Plant tall, bearing a profusion of round, bright red fruits which are very pungent when ripe. A very ornamental plant when in fruit. O.. 25c, 14 tb. 75c, 1b. \$2.50.

Giant Crimson

The earliest maturing of the extremely large, red sweet peppers and surpassed by none in evenness of size and shape. The plant is vigorous and upright, growing two and one-half to three feet high, larger than that of Chinese Giant and more productive. The fruits are of the largest size, ripen earlier than any of the other very large sorts and average heavier, as the flesh is exceptionally thick. Color deep green when fruit is young, deep crimson when matured; flavor very mild. Oz. 40c; 1/4 lb.

Red Chili

A late variety. Pods bright, rich red, about two inches long, one-third to one-half inch in diameter at the base, tapering to a sharp point and exceedingly pungent when ripe.

Oz. 25c, 1/4 fb. 75c, fb. \$2.50.

Oz. 25c, ½ tb. 75c, tb. \$2.50.

Long Red Cayenne
slender, twisted and pointed pod about four inches long. Color deep green when fruit is young, bright red when ripe. Extremely strong and pungent flesh.
Oz. 25c, ½ tb. 75c, tb. \$2.50.

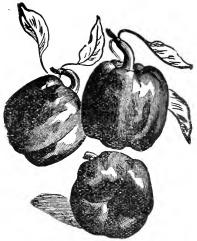
Large Bell, or Bull Nose this well known variety, sometimes called Sweet Mountain, is very superior. Plant vigorous, about two feet high, compact and very productive, ripening its crop uniformly and early. The fruits are large, with thick, mild flesh of excellent quality for use in salads and mangoes or stuffed peppers. The color is deep green when fruit is young, bright crimson when ripe. Oz. 25c, ½ tb. 75c, tb. \$2.50.

Ruby King

when fruit is young, bright crimson when ripe. Oz. 25c, ¼ tb. 75c, tb. \$2.50.

Ruby King An improved American variety, very large and attractive. The plant is about two and one-half feet high, vigorous compact and productive. The fruits are often four to four and one-half inches long and of deep green color when young, bright red when ripe. The flesh is thick and mild flavored. One of the best varieties for mangoes or stuffed peppers. Oz. 30c, ¼ tb. \$1.00, tb. \$2.75

tb. \$2.75.



Bell or Bull Nose

Large Sweet Spanish

A late maturing and attractive, red, sweet pepper. Plant about two and one-half feet high, upright, very compact, vigorous and productive. Fruits very large and long, frequently seven inches in length and about two inches in diameter, with very thick, mild flesh of excellent quality. Color deep green when fruit is young, rich red when ripe. Oz. 25c, 1/4 tb. 75c, tb. \$2.50.

POTATOES

Irish Cobbler Is the best early white potato grown. The tubers are smooth, round, plump and handsome. The flesh is white and of splendid quality. Per Bu. \$2.50.

True Early Rose The Early Rose is the old standard early potato; rosy blush skin, white flesh; early, productive, and of excellent flavor; a fine

keeper. Bu. \$2.50.

Light red and earliest of the early sorts. Flesh white, fine quality, fit for use when partly grown; tubers of uniform size, round, short, thick, smooth and solid; cooks dry and mealy and matures early. Bu. \$2.50.

Sir Walter Raleigh The best of the late potatoes; a grand main-crop variety of vigorous growth and a tremendous cropper. Whitest fleshed, finest grained potato grown, excelling even the famous Snowflake. The tubers are very large.

Carman No. 3 Another large, round, white, main crop potato; tubers are very large, eyes are shallow and few in number, and it is an immense yielder of large potatoes. Bu. \$2.00.

PUMPKIN SEEDS

Cashaw Pumpkin, fine table, per lb......\$.60
Mammoth Prize Pie, per lb....... 1.00

RADISH, Radischen

Being a root crop, good brittle radishes require light, well-worked soil, made very rich and mellow to insure quick growth. If permitted to grow slowly, they become tough and pithy. They are easy to grow and frequent plantings will insure a constant supply for the table. Summer varieties can be sown all spring and well into summer. Winter varieties, however, require some time to mature, and the seed should be planted in August and September for good radishes in November and December.

Deep Scarlet Turnip Radish Small Top-New

Johnson's Perfection Red

Johnson's Perfection Red

This radish is-7

a remarkably attractive variety. The white tip extends nearly half
way up the root, and the brillinat color of the top shows up in
strong contrast. Excellent for market work. Oz. 10c, tb. 75c.

Early Scarlet Turnip

Growth, and of a very desirable size, with small tops. Suitable for
growing outdoors or for forcing. Oz. 10c, tb. 75c.

Vick's Scarlet Globe

This grand radish has established
a reputation as a forcing sort. Its
peculiarity is that it will bear the heat requisite for forcing without becoming pithy in character or suffering injury to its flavor.
Its attractive shape is shown in the illustration. Its color is a
rich scarlet. It has a small top and is a high bred radish. Oz. 10c, rich scarlet. It has a small top and is a high bred radish. Tb. 75c.

Crimson Giant Forcing

A new variety which will be a popular market and home garden variety, since it matures very early and remains firm and crisp much longer than other short varieties. Color, rose carmine with white tip. It is top-shaped.

Oz. 10c, 1b. 75c.

F. H. EBELING SEEDS AND HARDWARE

(or Cal. Mam-moth White ty. Clear white, Chinese White Winter, or Celestial Winter.) The well-known and popular winter variety. Clear white, about four inches long and half stump-rooted. Keeps firm and crisp until it runs to seed. Is a good cooking variety, and when cooked the flavor resembles turnip. Oz. 10c, tb. 75c.

Chinese Rose Winter

A bright scarlet winter variety.

Chinese Rose Winter
A bright scarlet winter variety.
About four inches long and stumprooted. Matures two or three weeks earlier than the Chinese White
Winter and like it is firm and crisp and does not grow pithy until it
runs to seed. Oz. 10c, fb. 75c.

Rrightagt

Brightest Long Scarlet A very showy, long variety. Is thick at the shoulder and tapering. Bright rose scarlet with distinct white tip. Oz. 10c, tb. 75c.

French Breakfast It is about two inches long and decidedly stump-rooted. Color, bright rose with bottom of root and the tail pure white. Oz. 10c, tb. 75c.

White Streether A white radish of large circ.

white. Oz. 10c, fb. 75c.

White Strasburg and ability to resist severe heat. I always recommend White Strasburg for summer planting. It will grow solid, with good flavor, when others fail. Popular with market gardeners. Oz. 10c, fb. 75c.

Giant Stuttgart of the turnip shaped sorts. It has solid, risp, pungent flesh, and is highly prized by people demanding a radish of high flavor. Both skin and flesh are pure white. It should be given plenty of space in the row. Oz. 10c, fb. 75c.

Icicle A handsome white variety, about 5 inches long, with sloy-nild in flavor. Oz. 10c, fb. 75c.

Early Round Dark Red, or A bright scarlet turnip shaped variety Early, and a handsome radish or almost globular. Oz. 10c, fb. 75c.

Round Black Spanish A winter variety, with black skin and white flesh. It is top-shaped root and sloping top. Oz. 10c, fb. 75c.

Black Spanish, Half Long root and sloping top. Oz. 10c, fb. 75c.



French Breakfast



Chinese Rose Winter

RHUBARB

CULTURE.—Plant roots four feet apart each way, in very rich, well manured soil. Cultivate well and top-dress liberally. Plants easily grown from seed. Sow in drills about 15 inches apart, and thin the plants to 12 inches in the drills. Use one ounce to 75 feet of drill. Victoria A good market sort, with beautiful red stalks. Pkt. 5c, Oz. 15c, 1/4, 1/5, 40c, 1/5, 1/50. Roots, 1/5c each, 4 for 50c, postpaid. By express or freight, not prepaid, \$5.00 per 100.

SAGE

A hardy, perennial shrub, with whitish-green, oval, and very much wrinkled leaves, which have a pleasant smell and which are used for seasoning. It is easily grown and the seed can be sown almost any time. Its fragrant, purplish flowers are especially attractive to bees, and the finest white honey has its source in sage blossoms. Oz. 25c, 15. \$1.75.

SALSIFY, or VEGETABLE OYSTER

CULTURE.—Sow early and deeper than parsnip, otherwise culture is the same and, like that, roots, if desired, may be left in the ground through the winter, but should be dug very early in the spring, as they deteriorate rapidly after growth commences.

Mammoth Sandwich Island

Larger, of stronger growth, and less liable to grow prongy than the old Long White. Pkt. 5c,

Oz. 15c, 2 Ozs. 25c, 1/4 fb. 30c, fb. \$1.00.

SPINACH

An easily grown plant, the seed of which may be planted in the fall to secure good spinach early in the spring or even throughout the winter. The better and richer the soil, the larger and more tender the leaves will be. As a field crop for the market garden, use 8 pounds of seed per acre. For the home garden use one-half ounce for 100 feet of row.

Bloomsdale Savoy

The variety most generally used in the East, and especially throughout the South for shipping. Leaves large, round and thick, very much savoyed and rich deep green. One of the earliest varieties. Seed round.

Oz. 10c, 1b. 25c.



LONG SEASON SPINACH.

Long Standing A deep green variety with rather elongated smooth leaves. Seed, round. Stands a long time without running to seed. Oz. 10c, 1b. 25c. Victoria A long-standing variety with round, slightly savoyed leaves, Deep green and hardy. Forms good, edible leaves early and continues to produce leaves for a long period. Oz. 10c, fb. 25c.

Long Season Forms a dense rosette of thick, tender and succulent crumpled or blistered leaves of dark green color. With this variety spinach may be continuously grown in any home garden. The best variety to be sown in the spring and at intervals for a successional summer supply. It is invaluable to both home and market gardeners. Oz. 10c, Tb. 25c.

Prickly
The variety commonly used for market in California. Is very hardy and easily grown; bears large, smooth leaves, which are shaped like an arrow point. Color, bright green. Seed irregular with three or four sharp points. Oz. 10c, tb. 25c.

New Zealand
A plant with thick, fleshy texture and soft crystalline leaves.

Is not like the ordinary spinach in appearance, but it is used in the

same way. Oz. 10c, tb. \$1.00.

Round, Thick Leaved

A large-leaved, bright green variety. Leaves rather smooth and rounded at the top. A good variety for late spring and summer. Seed round. Oz. 10c, tb. 25c.

SOUASH, Kurbis

The summer varieties come into use early in the summer, but being sensitive to frost the seed cannot be sown until late in April. The seed should be planted in hills four feet apart, using four ounces to 100 hills. The winter varieties are also unable to resist frost, and should be planted at the same time. The fruit does not mature until late in the fall, and, having a very firm, hard shell, keeps well, and with a little care squashes can be had all winter and until late in the spring. In gathering winter squashes, it is important to protect the stems, since if broken off the fruit will not keep so well. Plant in hills six to eight feet apart, using two or three seeds to the hill. Use eight ounces to 100 hills, or two pounds to an acre. Moderately rich soil will grow good squashes.

Mammoth Summer Crookneck

A large golden-yellow variety, thickly warted; is eighteen inches long, brittle and tender. Plants are bush and very prolific. This is an improved strain of the old variety and considerably larger. Oz. 10c, to. \$1.00.

Burpee's Fordhook Squash A most desirable running variety for both summer growth and wonderfully productive. Fruits oblong in form, eight to ten inches in length, slightly ridged, smooth thin yellowish skin; flesh very thick and of a light straw yellow. If gathered young for cooking, no other squash approaches it in flavor, while if allowed to ripen on the vine they can be stored and will keep in excellent condition until late the following June. Either for baking like sweet potatoes or making pies during the winter the quality is unsurpassed. Oz. 15c, to. \$1.40.

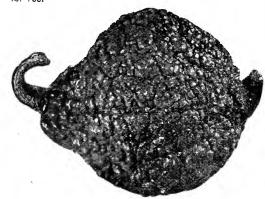
Burpee's Bush Fordhook Squash grown much more closely together. The fruits are rather shorter and thicker than those of the running type; they are also thicker fleshed and have a smaller seed cavity, but unfortunately do not come as true to type. Our Fordhook squash is about a week later than the Early White Bush; it is much sweeter and better flavored. Oz. 15c, to. \$1.40.

The Faxon A very desirable variety for the home garden, very productive, of medium in shape, but varied in color. This variation in color is a distinct feature of the squash. Oz. 10c, to. \$1.00.

Mammoth White Bush Scallon

Mammoth White Bush Scallop 1b. 75c.

An improvement on the old variety, larger, pure white and superior in quality. Oz. 10c,



Hubbard Squash

Boston Marrow larger than either of the preceding, but is not of so deep color; skin thin, yellow, with pink-ish tint; desirable for pies, not so dry as the Hubbard. Oz. 10c, tb. \$1.00.

Delicious One of the thickest meated and very best in

meated and very best in quality, not excepting Hubbard, Although at any time excellent, does not acquire its best quality until winter. Oz. 15c, tb. \$1.25.

Golden Hubbard A sort, shape and general character of the Hubbard, but a little smaller, earlier to ma-ture, and a rich orange-red instead of the dark olive-green of the old Hubbard, while the flesh, which is thick, is a little deeper colored, of fully as good quality, fine-grained and dry. Oz. 10c, fb. \$1.00.

Warted Hubbard

This is a distinct

strain of the famous Hubbard and is an ideal winter squash for marketmen. The shell is deeply warted and a dark green

in color, the flesh dry and sweet in flavor. It grows to large size, is a fine keeper and shipper, its cooking qualities unsurpassed. Oz. 15c, fb. \$1.00.

Mammoth Chili

The largest variety, attaining under special cultivation enormous size. Oz. 20c, fb. \$1.00.

SWISS CHARD

Giant Perpetual ("Cut-and-Come-Again") Spinach Swiss Chard huge curled leaves being tender and cooking readily, with a decided spinach flavor. Its great merit is that it will supply the greens from spring until late in the fall. The large midribs can be cooked and served like asparagus. If wanted for greens cut when 6 inches high just above ground and it will grow out again.

SWEET HERBS

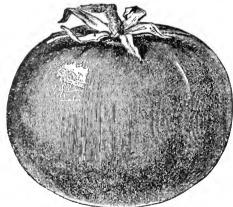
CULTURE.—Sow in early spring, at the time when the trees begin to leaf, in ordinarily good and well drained garden soil, in rows 12 to 24 inches apart. Cover seed lightly. Thin or transplant to stand 6 to 12 inches apart in the rows. Cultivate frequently and keep free from weeds.

Packet	Packet
Anise, seeds aromatic5c	Marjoram, leaves used in seasoning5c
Balm, has medicinal qualities5c	Mint (peppermint)5c
Basil, sweet	Rosemary, aromatic5c
Borage, leaves used for salad5c	Rue, medicinal qualities5c
Caraway, seeds aromatic5c	Saffron, medicinal qualities, also dyeing5c
Chives, Edible5c	Sorrel
Coriander, seeds aromatic5c	Sage, culinary herb5c
Dill, seeds aromatic and medicinal5c	Savory Summer, culinary herb5c
Fennel Sweet, seeds aromatic5c	Tarragon or Estragon (roots)5c
Horehound5c	Thyme, culinary herb5c
Lavender, leaves aromatic5c	Wormwood, medicinal qualities5c

TOMATO, Liebesapfel

As tomatoes are very sensitive to frost, they cannot be set in the open field until about May 1st. The seed must be sown in well protected hotbeds, sowing same about March 1st. A hardy and stocky plant is had by transplanting the small plants in the bed a few weeks before transplanting to the field. Or when about four inches high, the top may be pinched off and the plant grows stockier.

Sow the seed broadcast, using one ounce to about three square feet of area, which will yield plants enough to set an acre. In the field set tall varieties six feet apart and dwarf varieties three feet apart. A slight trellis is advisable in the garden. Good soil produces the best fruit, but it is not necessary that it be excessively rich. Too frequent watering, especially spraying the plant, is injurious to tomatoes in the home garden, but a moderate amount of water should be applied at the roots at regular intervals. of water should be applied at the roots at regular intervals.



drintervals.

Jin for the June Pink tomato in habit of growth is similar to the Earliana. The plant is compact, branching freely, with fruit hanging in clusters of six to ten fruits, both in the crown and at the forks of the branches. It ripens fully as early as the Sparks Earliana and quite ten days to two weeks ahead of Chalk's Early Jewel. Fruit of medium size, uniform, smooth, and attractively shaped, without cracks or any green core. The fruit averages 24 to 3 inches in diameter, and from 2 to 2½ inches in depth. The skin is reasonably tough, so it is excellent for shipping purposes. Conso it is excellent for shipping purposes. Continues to bear and ripen fruit up until frost. Oz. 35c, tb. \$3.50.

Chalk's Early Jewel A wonderful new variety, in that it is early and bears continuously throughout the season. The fruit is large, smooth, uniform, and well ripened clear to the stem, and the flavor and quality are especially fine. Color bright searlet. Or 250 the cially fine. Color, bright scarlet. Oz. 25c, Tb. \$2.75.

Earliana (Sparks) The earliest tall variety, forming

Chalk's Early Jewel

The fruit is large, smooth, of a bright scarlet color, and of fine quality. Very valuable for early market use. Pkt. 10c, tb. \$2.75.

Beauty

A rather early, tall variety; very prolific, with good-sized, smooth fruit of a purplish-carmine color.

Oz. 25c, tb. \$2.25.

Livingston's Dwarf Stone

Another splendid new variety from Livingston. This is what he says of it: "The same sort of tomato as Dwarf Champion, but the vine is of stronger growth, and the fruit is of double the size. It is equally early, is equally prolific. The shape of the fruit is perfect. It is very solid, ripens very evenly and is of excellent quality.

Oz. 35c, tb. \$2.50.

Dwarf Champion

A dwarf variety, sometimes called the tree tomato on account of its upright growth and its ability to stand alone without trellising. Fruit medium-sized, smooth, uniform, and of a purplish carmine color. Oz. 25c, tb. \$2.50.

Matchless

A tall-growing, prolific variety with large fruit, which is rather flattened, smooth and uniform. Color, bright scarlet. For canning and general main crop market, there is no better tomato grown. Extra selected strain. Oz. 40c, tb. \$3.00.

Ponderosa

Oz. 40c, tb. \$3.50.

Red Cherry

The fruit is small and globe-shaped, about one to two inches in diameter.

Red Cherry
Red Pear Shaped
The fruit is small and globe-shaped, about one to two inches in diameter. It is very valuable for preserving. Oz. 25c, tb. \$2.50.

As the name implies, the fruit is shaped like a pear—small at the stem and enlarged at the top. It is small, being about two or three inches long. It is bright scarlet. Oz. 25c, tb. \$2.50.

Golden Queen

Geright yellow.) Best large yellow tomato. Much like Paragon, except in color. Always smooth and ripens early. Quality excellent in all respects, either for slicing or preserving. Queen of all the yellows. Oz. 35c, tb. \$3.00.

Pear-Shaped Yellow

(Bright yellow). A pretty tomato, similar to Pear-Shaped Red, except in color. Oz. 30c, tb. \$3.00.

TURNIPS, Steckrube

While turnips are a favorite fall and winter vegetable, they may also be had in the spring by proper sowings. They are of easy culture, but need well-worked, rich soil to insure a quick, uninterrupted growth, when they will be tender and free from woodiness.

For fall and winter use sow the seed in August, in rows 10 to 18 inches apart, using one ounce to 250 feet of row, thinning the plants when very young to three or four inches apart. For spring use sow in January. For field culture sow in rows about two feet apart, using one to three pounds of seed per acre.

Early Snowball

A medium globe-shaped variety of pure white. Very solid and of the best quality. Oz. 10c, 15. 75c.

Early White Flat Dutch (Strap Leaf)

A medium-sized, flat variety; clear white, early, and of fine flavor. A

fine table variety. Oz. 10c, Tb. 75c.

Early White Milan Roots flat, smooth and symmetrical; pure white. Top very small, upright and compact, permitting close planting. The earliest and much the best of any extra-early white variety. Oz. 10c, tb. 75c.

Early Purple-Top Milan Differs from the preceding in that the roots are not quite so thick and are purple on top. Oz. 10c, tb. 75c.

Early Purple-Top Flat Roots smooth, white, with the upper portion purplish red. Oz. 10c, 1b. 60c.

Early Purple-Top White Globe lower pure white. A rapid grower, attaining a marketable size sooner than other large globular varieties.

One of the handsomest varieties, the upper portion of the root being a purplish red, the size sooner than other large globular varieties.

size sooner than other large globular varieties. Of the best quality and an excellent keeper. Owing to its strong growth should be more severely thinned than other early varieties. We offer New England grown seed of a selected strain, which repated trials have shown to be much superior to those generally offered. Oz. 10c, tb. 60c.

Cow Horn

A long white turnip. Grows to a large size, standing half out of the ground. It is fine flavored and desirable. Cow Horn turnip sown in connection with Rape is one of the newly recommended things for green manuring purposes. Oz. 10c, tb. 50c.

Ruta-bagas or Swedish Turnips

Laing's Improved Swede handsome round variety; fine for the table. Oz. 10c, tb. 50c.

Sweet German, or Russian white, sweet, excellent; a first-rate keeper. Oz. 10c, tb. 50c.

Carter's Imperial Swede This is the best of the Swede turnips.

Oz. 10c, 1b. 50c.

American Purple-Top very hardy and productive; flesh yellow, solid, sweet; good for stock or table use. Oz. 10c, th. 50c.

Long Island Improved which it is a great improvement, being nearly double the size; an immense yielder and good keeper; flesh rich yellow, of fine quality. of fine quality. Oz. 10c, 1b. 50c.



Ruta Baga American Purple Top Turnip

"SEEDOLIN" (NON-POISONOUS)

Liquid Dressing for Wheat, Seed Corn, Etc.

Never clogs the drill. The latest scientific discovery up-to-date, 1912, contains all the advantages of the others without any of their disadvantages, and is certain preventive against all birds. A real scarecrow. Birds will not touch it. Prevents smut, fungus and vermin. Every grain of seed protected against birds, disease, and weather; consequently increased germination and vigorous growth.

PRICES

		Wheat, Maize, Beans, Peas, Vetches, Etc.	Barley, Rye, Cotton, Etc.		Oats, Etc.	Net Price
One	Can—sufficient	for 16 Bush.	14 Bush.		12 Bush.	\$1.45
		for 32 Bush.	28 Bush.		24 Bush.	2.80
One	Can—sufficient	for 64 Bush.	56 Bush.		48 Bush.	5.50
One	Can—sufficient	for160 Bush.	140 Bush.		120 Bush.	13.00
		Full directions for use	with each	package	·.	

GARDENERS, ATTENTION

We call your special attention to our complete line of Iron Age Cultivating Tools, Spraying Tools, Planters and Potato Machinery. Also Insecticides, all of which are illustrated with prices on pages 47 to 58.

On page 54 we are showing the new Perfection Disk Hand Cultivator, which we believe to be the most practical tool ever invented.

SELECT FLOWER SEEDS.

Abobra (Gourds) Beautiful variety of climbing gourd with elegant foliage. 5c pkt.

Abronia (Sand Verbena) Trailing, annual, sweet-scented clusters like verbena, lasting in bloom a long time; for rock-work or hanging-baskets. Height 12 inches. 5c pkt.

Abutilon (Chinese be! Tower or flowering maple) Free flowering, perennial shrub; fine for in doors. For outdoor se. w before April. Will bloom first season. 10c pkt.

Acacia Half hardy shrub having ornamental foliage, beautiful shades of yellow, globular flowers. Soak seed in warm water before sowing. Height 6 to 10 ft. Mixed 10c pkt.

conitum (Monk's hood or Wolfs bane) Hardy, perennial, long spikes of odd shape blue and white flowers, adapted to shady corners or among shrubbery; 3 to 5 ft. 5c pkt.

Acroclinium Pretty, annual everlasting, 15 inches high, lovely white or rosy pink flowers fine for border. Sgl. or dbl. 5c pkt.

Adlumia Hardy white perennial, 2ft. high, pure white double flowers, bloom from spring untifrost, fine for cemetery decoration. Flowers first season if sown early.

Adlumia (Mountain fringe or Allegheny Vine) A hardy biennial climber, will resow itself yea: after year, feathery foliage resembling Maiden-hair Fern, flowers tube-shaped, flesh colored

atter year, leathery foliage resembling matter-nair Fern, flowers tupe-snaped, liesh colored completely covering the plant, fine for trellises, stumps, etc. 10c pkt.

Adonis (Pheasant's eye) Flos Adonis, Showy, hardy, annual, of easy culture, fine cut foliage blooms a long time; dark crimson flower with light center. Height 1 ft. 5c pkt.

Ageratum (Floss Flower) Fine bedding sort, literally a sheet of bloom from early summer until frost; not liable to be spoiled by rain, flowers not liable to fade; easily raised from seed Santi Membrah bed and the profession to the second state of the second state o Sow in March or in hot-bed and transfer into open ground in June when weather is suitable

valuable for winter flowering for conservatory. 5c pkt

Blue Perfection Dark blue, largest flowering, fine bedder. 10c pkt.

Cope's Pet Azure blue, fine light blue sort for edging, 10c pkt.

Dwarf Princess Pauline Beautiful, compact, sky blue, white center, very exquisite. 10c pkt.

Mexicanum Lavender blue, 11-2 ft. 5c pkt. Imperial Dwarf White Height 8 inches. 5c pkt.

Agrostemma (Rose of Heaven) Free blooming, hardy, perennial, blooming first season, height to 2 ft. Mixed 5c pkt.

Alyssum (Mad-wort) Pretty little plants for beds, vases, baskets, edging, etc. Bloom profusely

all summer, also useful for winter. Very sweet-scented. Little Gem (or Carpet of Snow) 4 to 6 inches in height, each plant covering a circle of 15 to 30

inches. 5c pkt.

Sweet Alyssum Trailing flowers, white. 5c pkt.

Tom Thumb Compact, dwarf, fine for edging, white. 5c pkt. 30c oz.

Saxatile Compactum (Basket of Gold,) handsome yellow flowers, hardy perennial, blooming first season, fine for rock work, 1 ft. 5c pkt. 30c oz.

Amaranthus Brilliant foliaged annuals, 3 to 5 ft. Useful in borders or centers of large beds Do not plant too closely.

Brilliant Foliage bright red, ends of branches carmine-rose, red and yellow. 10c pkt.

Caudatus (Love lies Bleeding) Blood red, drooping foliage, 3 ft. 5c pkt. Salicifolius (Fountain Plant) Pyramidal, drooping habit. 5c pkt.

Sunrise Bronzy Crimson to brilliant scarlet. Fine for parks and large beds, 3ft, 10c pkt.

Sulphurine Leaves dark green, bright sulphur yellow. 10c pkt.

Tricolor (Joseph's Coat) Leaves red, yellow and green, 3 ft. 5c pkt. 30c oz.

Ammobium (Winged Everlasting) Grandiflorium, Pretty Border, annual ever-lasting, flower white with vellow disc. 5c pkt.

Ampelopsis (Boston or Japanese Ivy) Hardy, perennial climber, clive green leaves turning tescarlet in fall. Popular climber, fine for brick or stone walls. 10c pkt.

memone (Windflower) Hardy, perennial, large flowers, fine for bouquets. Mixed colors. 10c pkt.

Antirrhimum (Snap Dragon) White, yellow, scarlet, each 10c pkt. mixed colors. 10c pkt.

Aquilegia (Columbine) Charming, hardy, perennial, 1 to 3 ft., profuse bloomer, blue, white, rose, yellow, purple, striped, etc. Fine for borders. Sgl. mixed 5c pkt. Dbl. mixed 5c pkt.

Arabis (Rock Cress) Alpina very early, pure white, spring flower, appear as soon as snow disappears. Fine for rockeries or edging. 6 inches high. 10c pkt.

Arctotis Grandis, Beautiful new annual, 2 to 3 ft. high, large strong pure white flower embellished with yellow center of the assist culture. 10c pkt.

lished with yellow center, of the easiest culture. 10c pkt.

Aristolochia Sipholeaves. 5c pkt.

Armeria (Sea pink or cushion pink) Very pretty edging plant, bearing large tufts with rosy pink flowers, hardy perennial. 10c pkt.

Asparagus Plumosus Nanus Graceful climber, finer than most delicate ferns. Will last for

weeks after being cut, easily cultivated. 25c pkt.

prengeri One of the best for hanging baskets or general purposes, fronds 4 ft. long. 10c pkt

Verticillatus Graceful, hardy perennial climber, scarlet berries. 10c pkt.

Asperula Odorata (Sweet Woodruff) Fragrant leaves and stems, grown in shaded places, white flowers. 5c pkt.

Asters are now one of the most important summer and autumn flowers. Their immense popularity and world-wide demand shows their adaptibility to any soil or climate, there being early medium and late flowering sort which extends the blooming period from early July until frost. For the best results the ground should be very rich. Good results can be obtained from ordi-

nary garden soil.

Branching Varieties 11-2 ft. high., very double, beautifully incurved. Crimson 10c, blue 10c, pink 10c, white 10c, rose 10c, mixed 10c.

Asters (Continued).

Branching Preony Flowered In vigor of growth, size or bloom and other qualities this type is unequalled. Height about 18 inches, free branching habit with long stems. Orim son 10c, blue 10c, white 10c, mixed 10c.

Comet Beautiful with long curled petals resembling the Japanese Chrysanthemum, height 14 inches. Carmine 10c, pink 10c, blue 10c, mixed 10c.

Giant Comet Similar to the above but of stronger growth, 18 to 24 inches high. Pure white 10c, white and rose 10c. Giant Branching Comet Very strong growth, 18 inches high, branching habit, flowers

of large size on long stems. 10c pkt.

Recurrence of the Market The earliest flowering Aster, blooms three weeks in advance of the Queen of the Market general run, flowers good size on long stems. Fine for cutting. Crimson 10c, pink 10c, purple 10c, white 10c, mixed 10c.

Victoria Magnificent bedding or cutting variety, flowers large beautifully imbricated, 11-2 fa high. Scarlet 10c, purple 10c, blue 10c, pink 10c, white 10c.

Clima Mixed Very fine, all colors 5c.

Quilled Aster Double or quilled petals, fine for bouquets. 2 ft. 5c pkt.

Crown or Cocardean Very showy, double white center, mixed colors, 11-2ft. high 10c pkt. Daybreak Grand variety of symetrical growth and habit. 18 inches high, globe shaped double, delicate, pink tint. 150 pkt.

Dwarf Chrysanthemum Large flowering, dwarf, double, excellent for plants and pots.

Mixed 10c pkt.

Fire-Ball Magnificent, double, brilliant, deep scarlet 10c.

Japanese or Tassel Entirely distinct, new pyramidel shape, 18 inches high, long stems, flowers five inches across, wavy twisted, needle shaped petals, very graceful. Mixed 10c pkt. Ostrich Feather Magnificent, resembling the Comet, flowers of immense size of loosely formed petals, equaling the best Japanese Chrysanthemums. White or pink 15c each.

Rose flowered Large double, pyramidel, height 2 ft. Mixed colors 10c.

Snow Ball A beautiful distinct sort, short petals, pure white 10c.

Washington Splendid, very large, double, diameter 6 inches. White 15c.

Perennial Single, hardy. Does well in any garden soil. If sown early will flower in early season. 10c pkt.

Bachelor's Buttons (See Globe Amaranth).

Balloon Vine (Love-in-a-Puff) Rapid growing annual climber, white flowers, seed vessels look like miniature balloons. 5c pkt. Balsams (Lady Slipper) Double, camellia flowered type, and old favorite, gorgeous brillians

colored, double flowers in great profusion, easily cultivated, 2 ft. high.

Prince Bismarck Salmon, pink, double. 10c pkt. Scarlet, yellow, violet and mixed each 50. White 10c.

Baptisia (False Indigo) Beautiful, hardy, perennial, pea-shaped flowers on spikes 6 inches long, bright blue 2 1-2 ft. 5c pkt.

Bartonia Showy yellow flowers, very brilliant, cannot be transplanted. 5c pkt.

Begonias Fine bedding variety, equal to geraniums, sturdy growth, 1 ft. high, forming dense bushes completely covered with flowers from May until frost. Unequalled as pot-plants for winter flowering and will remain in bloom the entire year. Easily raised from seed. Double mixed 25c, single mixed 15c.

Tuberous Rooted Begonias Plants of great value for summer decoration or window gardening, bloom first season from seed if sown in February, transplanted as soon as weather permits, produce flowers the entire summer. Double mixed 25c, single mixed 25c.

Ornamental Leaved Begonias Beautiful, varigated foliage. Mixed 25c.

Bellis Double Daisy, very handsome spring-flowering plant. 5 pkt.

Brachycome (or Swan River Daisy) Dwarf, annual, profuse bloomer, pretty blue or white

flowers. 5c pkt.

Calceolaria (Lady's Slipper) Ornamental plant with mass of beautiful pocket-like flowers, blooms early and very fine for decorating green-house or conservatory.

Hybrida Grandiflora, 20 inches high Mixed, 25c.

Tigrina Large tiger spotted brilliant colors 25c.

Calendula (Pot Marigold) Very shovy, free-flowering until frost, hardy annual, grows to any good soil, fine for beds or mixed borders, fine for pot culture, height 1 ft.

Meteor Large double yellow, striped with orange 5c.

Orange King Large double orange red flowers 5c.

Pure Gold Fine Golden Yellow 5c.

Mixed per pkt. 5c.

(Cape Marigold) White daisy-like flowers, under side of petals lilac, 5c. Pluvialis'

Calliopsis (See Coreopsis) Showy, free-flowering annual, blooms all summer, fine for cutting and massing. 5c pkt.

Coronata Large yellow, fine for bedding 5c.

Golden Wave (Drummondii) Large golden yellow with brown center, fine for borders. 55 Tinctoria Golden with garnet eye 5c.

Nigra Speciosa Crimson 5c.

Campo wila (Bellflower) Favorite, hardy herbaceous with great profusion of bell flowers, thrives in light rich soil.

Carpatica Blue and white mixed, bloom the whole season, 6 inches 5c.

Persicifolia Grandiffora Fine hardy bell flowers 2 to 3 ft. blue or white. Mixed 10c.

Canary-Bird Vine (Tropsolum Canariense) Handsome annual, rapid climber, charming little canary-colored blossoms bearing a fancied resemblence to a bird with wings half expanded & Candytuft (Iberis) A great favorite, fine for cutting, looks best in beds or masses. Sow in spring, will bloom until frost, very hardy, easily cultivated. Single plants look well and bloom

profusely, 1 ft. Carmine 5c.

White 5c.

Candytuft (Continued)

Crimson 5c.

Empress A complete mass of pure white flowers 10c.

White Rocket 5c.

Lavender 5c.

Mixed colors 5c.

Perennial mixed 10c.

Canna (Indian Shot) Without exception one of the handsomest bedding plants. Soak the seeds in warm water until they show evidence of swelling. When the second leaf is out pot singly and keep under glass until proper season for planting out. Mixed colors 10c.

Canterbury Bell (Campanula Media) Sgl. mixed 5c. Dbl. mixed 5c.

Cup and Saucer (Calycanthema) Fine white, blue and rose, resembling cup and saucer. 5c

Carpantion (See Dianthus) Great favorite for their delicious fragrance and richness of color indespensible for winter or summer culture. Dbl. mixed. 10c.

Marguerite Carmations Very popular, as they begin flowering a few weeks from time of sowing, half dwarf, strong, requiring no support, produce long, strong stems, abundant large double, beautifully fringed, highly-scented flowers. Mixed colors 10c.

Castor Oil Bean (See Ricinus).

Celosia or Cristata or Cockscomb Varieties Free-blooming annuals, plant in light soil not too rich, grand for border and fine for pots.

Empress Combs of Colossal size, known to measure 45 inches from tip to tip; rich crimson 10c Glasgow Prize Dark Crimson 10c.

Dwarf 8 in ches high, sometimes measure 2 ft. across 10c. Mixed Dwarf 5c.

Centaurea Under this name is included the popular annuals like Corn Flower, Blue Bottle Ragged Sailor, Sweet Sultans, etc. Great favorites, fine for cut flowers; white-leaved sorts, or

Dusty Millers are largely used for bedding, vases, etc.

Sweet Sultans (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, when cut will be a sultans (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, when cut will be a sultans (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, when cut will be a sultans (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, when cut will be a sultans (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, when cut will be a sultans (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, when cut will be a sultans (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, when cut will be a sultans (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, when cut will be a sultans (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, when cut will be a sultans (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, when cut will be a sultans (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, when cut will be a sultans (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, when cut will be a sultans (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, sweet-scented, strong stems, sweet-scented, strong stems, sweet-scented, strong stems, sweet-scented, sweet-scen stand for several days in good condition of easy culture. Mixed colors 10c. Named colors 10c. Giant Sweet Sultans (Centaurea Oderata) or Giant Cornflowers, easy to cultivate. flowers 2 to 4 inches in diameter, very graceful, sweet-scented.

Chameleon Pale yellow turning to a beautiful rose 10c.

Oderata Reddish lavender, very fragrant 10c.

Margaritæ White 10c.

Cheiranthus (See Wall Flower) Mixed 5c pkt.

Chrysanthemums Annual sorts, showy, effective garden favorites. Dbl. mixed 10c pkt. sgl. mixed 10c pkt.

Cineraria Seed may be sown from May to September in succession. Where only one sowing is made July should be preferred. Cinerarias grow so freely that the seedling may go straight from seed-pans to thumb-pots. For transplanting, plant in a cold frame facing north, if possible. When pots become full of roots shift into larger ones until the flowering size is reached. **Dwarf Mixed** 25c per pkt.

Tall Mixed 25c per pkt.

Double Flowering 25c per pkt.

Stellata (Star Cineraria) A charming variety with large spreading panicles of starry flowers. Same colors as the common Cineraria. The grace and elegance of the plant and flowers make them very effective for house or conservatory decoration; especially fine for church decoration and very useful for cutting. 35c.

(White Leaved Sorts) Cineraria

Dusty Miller Fine for bedding and margins, valued for their beautiful, downy, silvery foliage, half hardy perennial; 2 ft.

Maritima Candidissima Silvery foliage 5c pkt.

Acanthitolia Silvery foliage 10c pkt.

Clematis Rapid-growing climber, fine for arbors and verandas. Seeds are slow to germinate, and should be soaked in warm water 24 hours; hardy perennial mixed colors. 10c pkt.

anthus (Australian Glory Pea) Beautiful, tender, perennial shrub with clusters of brilliant pea-shaped flowers, 3 inches in length, with large black blotch for center. 10c pkt. Clianthus

Cobara (Cups and Saucers Vine) A rapid climber, fine for trellises, arbors, etc., clings to any rough surface. Place seeds in the ground edgewise and cover with light soil.

Purple 10c pkt. pure white. 10c pkt.

Coccinea Indica (Scarlet-fruited Ivy-leaved Climber) Handsome, annual, gourd species with beautiful glossy ivy-like leaves, contrasting with the fine snow white bell-shaped flowers and bright carmine fruit. 10c pkt.

Coleus (Flame Nettle) An attractive foliage plant for house or garden, very interesting to grow from seed, easily raised; sow in March or April. 10c pkt.

Convolvulus (Morning glory) Climbing varieties, very popular and one of the most free-flowering, rapid-growing plants in cultivation; doing well in almost any situation, with beautiful brilliant flowers; annuals, 15 ft. Mixed colors 15c oz. 5c pkt. Dwarf per oz. 15c. 5c pkt.

Coreopsis (See Calliopsis) A very fine hardy plant with large, showy bright, yellow flowers, produced in great abundance from June until frost, especially fine for cut flowers having long stems and lasting in good condition a week or more. These grow from seed, flowering the first year if sown early. 5c pkt.

Cosmos Beautiful autumn blooming plant, producing thousands of beautiful flowers in pure white, pink and crimson shades; fine for autumn decoration when other flowers are scarce. Sow in spring in open ground when danger of frost is over, or may be started under cover and transplanted. Set about 18 inches apart in rows or in masses in beds. When about a tt. high pinch the tops out to induce a bushy growth., 2 1-2 to 4 ft. in height.

Crimsou, 5ċ Pink 5c. White 50.

Cosmos (Continued)
Nixed 5c pkt.
Dwarf 5c pkt.
Cucurbita (See Ornamental Gourd)

Cyclamen Charming plant with richly colored foliage, fragrant flowers. Great favorites for winter or spring. Sow in spring or autumn.

'Persicum Choicest mixed. 15c pkt.

Pure white, dark red, rose each 25c pkt.

Cyperus (Umbrella Plant)

Alterdifolius Excellent for growing in water or damp places. Very ornamental house

plant. 10c.

Cypress Vine (Ipomaea Quamoclit) A favorite summer climbing annual, with feathery foliage and star-shaped flowers borne in clusters.

White 5c pkt. Scarlet 5c pkt.

Rose 5c pkt. Mixed colors

5c pkt.

Oahlia One of the best late summer and autumn flowering sorts, very popular. The double sorts will bloom first season it sown early. Single will bloom first season if sown in the open ground. Many prefer the single sorts to Cosmos, having the larger variety of colors and longer season of bloom.

Double, finest mixed 10c.
Single, finest mixed 10c.
Single Tom Thumb, dwarf, 1 ft. 10c.
Single Tom Thumb, dwarf, 2 ft. 10c.

Oatura .(Trumpet Flower) Ornamental annuals, large showy flowers; 2 to 3 ft. Dbl. and ag-10c pkt.

Delphinium (Perennial Larkspur) One of the handsomest hardy perennials, splendid flowers and curiously cut leaves; for permanent beds and borders they are indispensable.

Zalil (Hardy Yellow Larkspur) Produces very long spikes of 40 to 50 sulphur yellow blossoms each 1 inch in diameter; flowers from June to August, plant thrifty and bushy; 3 to 4 ft. 10c pkt. Formosum Popular for groups, tall spikes of dark blue flowers with white eyes; 2 to 3 ft. 5c pkt.

Nudicaule Large scarlet flower; 1 1-2 ft. 10c pkt. Mixed finest single 5c pkt.

mixed 10c pkt.

Dianthus or Pinks A magnificent sort embracing some of the most popular flowers in cultivation, of great variety and brillancy with profusion of bloom. The sorts classed as annuals may be sown out-of-doors when danger of frost is past. In a few weeks time they are a mass of bloom continuing until frost; 1 ft.

Chinensis Fl. Pl. (China or Indian Pink). Mixed colors 10c. Heddewigi Fl. Pl. (Japan Pink) Double mixed 10c. Snowball Double white, fringed, very fine 5c pkt.

Imperial Fl. Pl. (Double Imperial Pink) Mixed 10c.

Salmon King A double flowering variety, finely fringed flowers of a brilliant salmon color 106 changing as they fade to a salmony-rose; charming for beds or borders. 10c pkt.

Single Annuals All single sorts have large flowers 2 to 4 inches in diameter, fine for beds or borders; 1 ft. high.

Heddewigi Nobilis (Royal Pink) Beautifully fringed, colors run from white to dark red 10c Heddewigi (Japan Pink) 10c. Laciniatus Fl. Pl. (Double Fringed Pink) Large, double, showy flowers, with fringed

edges and beautifully striped; mixed various colors. 5c.

Hardy Garden Pinks The varieties are well adapted for beds and borders; delightful, re

Hardy Garden Pinks The varieties are well adapted for beds and borders; delightful, refreshing, spicy odor, should be in every garden where cut flowers are wanted.

Semperflorens (Ever-blooming hardy garden Pinks) Very beautiful, sweet-scented, double semi-double and single in great diversity of colors, mixed colors. 25c.

Dianthus (See Carnation) Carnations are general favorites for their delicious fragrance and richness of colors. They are indespensable for the green-house in winter and the garden in summer. The Marguerite is one of the best for summer flowering.

Fine Double Mixed The best for garden culture 10c pkt.

Marguerite These are the most popular of caranations with the amateur, as they begin flow ering within a few weeks from the time of sowing. Our strain is of semi-dwarf, robust habit requiring no artificial support, and produces on long strong stems an abundance of large depths of the strain is of semi-dwarf, robust fall friends in the strain of the strain is of semi-dwarf, robust fall support, and produces on long strong stems an abundance of large double, beautiful fringed, highly scented flowers. Separate colors 10c. Mixed, all colors Marguerite Carnation 10c.

Very pretty annual, blooms profusely from July to November, pale lavender blossoms Didiscus

excellent for cutting. 15c pkt.

Digitalis (Foxglore) Handsome ornamental hardy perennial plant, easily grown, fine for

10c pkt. shrubberies; 3 ft. Mixed colors, **Dolichos** (Hyacinth Bean) Rapid annual climber with large clusters of handsome flowers producing later in place of flowers, pods of a deep purple, very ornamental, mixed colors. 10c pkt **Draceena** (Dragon Plant) Fine ornamental leaved plant. Mixed colors. 25c pkt. **Echinocystis** (Wild Cucumber Vine) Quickest growing vine known, fine for covering trellises

fences, etc. 5c pkt.

English Daisy (Bellis Perennis) A favorite almost hardy perennial blooms from early spring until late in summer, easily raised from seed, 4 inches high.

Dbl. mixed, finest quality 10c. Red, white or pink 10c.

Erigeron (Flea-bane) An attractive, asterlike flower, 1 inch across, purplish-rose with goldes center, hardy perennial, blooms first year from May until frost if sown early. 20c pkt.

Eryngium (Sea Holly) Handsome ornamental, hardy plant 2 to 3 ft. high. Fine for drying for winter bouquets. 15c pkt.

Eschscholtzia (California Poppy) Fine annual for beds, border or masses, bloom until frost; 1ft. Sgl. mixed 5c pkt. dbl mixed 5c pkt.

Emphorbia Strong, tall.growing annual, attractive foliage. 10c pkt.

Forget-me-not (See Myosotis)

Four o'clock or Miribilis

Fox Glove (See Digitalis)

Fuchsia (Lady's Eardrops) Well-known sort of easy culture, for house or garden, mixed colors 25c pkt.

brilliardia (Blanket Flower) Splendid showy annual, remarkable for profusion, size and brilliardia (Blanket Flower) Splendid showy annual, remarkable for profusion, size and brilliardy of flower, bloom until frost, fine for beds, borders or cutting; 11-2 ft. Mixed colors annuals 10c pkt. Mixed colors, perennials, 5c pkt.

Globe Amaranth (Gomphrena) Known as Bachelor's Buttons. fine bedding plant, flowers can be dried and be used in winter bouquets; 2 ft. mixed colors. 10c pkt.

Aloxinia A superb greenhouse sort with magnificent rich colored flowers; do best in equa mixture of peat, loam and sand, mixed colors. 25c pkt.

An attractive, hardy annual, profuse, showy flowers of varied colors; 1 1-2 ft. Mixed Godetia colors. 10c pkt.

Rourds Ornamental (Cucurbita) Rapid-growing, annual climbers, ornamental foliage is

to 20 ft. Mixed colors. 5c pkt.

Grasses, Ornamental These serve the double purpose of rendering mixed flower-beds or borders attractive in summer and for use in a dried state in winter bouquets, for large beds a groups on lawns, nothing gives a finer effect; largely used in public parks.

Briza Maxima Fine for grass bouquets. 5c.
Bromus Brizaformis Graceful, drooping perennial. 5c.
Coix Lachrymae (Job's Tears) Broad, cornlike leaves, annual. 5c.
Erianthus Ravennæ (Hardy Pampas) Beautiful perennial. 5c.

Gynerium Argenteum (Pampas Grass) Perennial, blooms the second season. 10c.

Stipa Pennata (Feather Grass) Perennial, beautiful white, delicate begins to bloom second season; 2 ft. 5c.

Gypsophila Pretty, free-flowering plant for rock work, edging, etc. Mixed colors. 5c pkt Helianthus (See Sunflower)

Helichrysum (Straw Flower) Fine, everlasting double flowers, fine for display; hardy annuaic 2 ft. Mixed colors. 5c.

[eliotrope (Cherry Pie) Half-hardy perennial, flowering the whole season, very fragrant Can also be trained as a greenhouse climber. Mixed colors, 10c.

Hibiscus (Marshmallow) Showy, perennial plant with large beautiful colored flowers; 1 1-2 %

Mixed colors. 10c.

Hollyhocks One of the most majestic of hardy plants, so well known that it needs no further description.

In separate colors. 10c.

Choice single mixed colors. 10c.

Choice double mixed. 10c.

Honesty (Moonwort Satin Flower) Hardy biennial, with silvery seed pouches, very attractive 2 ft. 10c.

Humulus (Japanese Hop) Ornamental, fast-growing climber resembling the common hop. 16c Impatiens (Sultans or Zanzibar Balsam) Charming plant for decorating greenhouse or dinner table, producing bright, waxy looking flowers. Mixed colors. 25c.

Ipomoea Climbers of very rapid growth, beautiful, varied flowers; for covering walls, arbors stumps, etc.

Coccinea (Star Ipomæa) Small scarlet flowers 5c.

Bona Nox (Evening Glory) Violet, large fragrant flowers, expanding in the evening. 5c.

Rubra Cœrulea (Heavenly Blue) Bright sky blue. 10c.

Grandiflora (Moon Flower) Blooms at night and on dull days, pure white flowers. 5 to ¢ inches in diameter, rapid climber, 10c.

Job's Tears (Coix Lacbrymae)

Kenilworth Ivy (See Linaria)

hochia Pricophylla or Burning Bush 10c pkt Lady Slipper (See Calceolaria)

Lantana One of the most desirable half-hardy perennials, constantly in bloom, verbena-like heads of orange, white, rose and other colors; 2 to 5 ft. Mixed colors 10c.

Imperial Japanese This variety without question the handsomest of all Morning Glorier

Sow in good soil as soon as weather permit, a strong vigorous climber, flowers of gigantic size, remain open most of the day. The colorings are beyond description. Choice mixture 10c Larkspurs (See Delphinium) One of the best known garden flowers, hardy annuals Dwarf Rocket 1ft. Mixed colors 10c. Dbl. mixed 10c.

Double Stock Flowered Tall branching sort; 2 ft. 5c.

Lathyrus (Everlasting or Hardy Sweet Pea) Free-flowering hardy perennial climber continually in bloom. Mixed colors. 5c pkt.

Lavender (Lavandula Vera) Well-known, sweet-scented, hardy perennial; 3 ft. 5c pkt.

Linaria (Kenilworth Ivy) Charming small, hardy perennial, trailing plant. 10c pkt.
Linum (Scarlet Flax) A very showy bedding plant, brilliant scarlet, excellent bloomer, hardy perennial; 1 ft. 5c pkt. Lobelia (Cardinal Flower) Popular flowering plant for pots, hanging baskets, etc. Bloom pro-

fusely from June to November, hardy perennial.

Crystal Palace Rich deep blue. 10c pkt.

Crimson, white or blue 10c pkt. Mixed colors 5c pkt.

Hardy Perennial Lobelias (Cardinal Flower) Brilliant scarlet; 3ft. 10c pkt.

iophospermum Beautiful climbing plant, trumpet shaped flower, 10 ft. 10c pkt.

Lupinus Ornamental free-flowering annual, various colored, pea-shaped flowers; 2 ft. 5c pkt.

Lychnis Handsome hardy perennial, easy culture, fine for beds and borders. Mixed colors 10c.

Marigold (See Tagetes also Calendula. French Varieties) An old favorite, free-flowering.

Double Yellow 10c pkt.

Marigold (Continued)

Single Yellow 10c pkt. Mixed colors 5c pkt. African varieties

Double yellow 10c pkt. Large African Tall, double yellow; 2 ft. 5c pkt.

Signata Pumila A dwarf, compact, bushy annual marigold with beautiful delicate fern-like leaves, densely covered with flowers of bright yellow striped brown; fine border plant. 5c pkt. Matricaria (Feverlew) Free-flowering, blooms until frost, hardy annual; 18 inches. Dbl white 10c pkt.

Maurandia Beautiful, slender-growing Climber, half-hardy perennial; 10 ft. Mxd colors 10e Mesembryanthemum (Ice Plant) Dwarf trailing plant of great beauty, blooming the whole summer, half-hardy annual; 6 inches. 5c pkt.

Mignouette (Reseda) A popular favorite, sown in April and again in July, will keep up a succession of bloom until frost; also suitable for pots, very fragrant, (orange) 5c pkt.

Golden Machet 10c.

Miles Spiral spike; 8 to 10 inches long, very fragrant. 5c.

Improved red 5c.

White Very fragrant. 5c.

Sweet scented Old popular variety, small spikes, very fragrant. 5c.

Mimosa (Sensitive Plant) A curious, interering annual with pinkish-white flowers, leaves closs

and droop when touched or shaken. 5c pkt.

Iimulus (Musk Plant) Very showy, profuse-flowering plant, half-hardy perennial, blooms first year if sown early; 1 ft. 5c pkt.

Tigrinus (Monkey Flower) Spotted variety. 5c.

Moschatus (Musk Plant) Fine for hanging baskets, small yellow flowers, fragrant foliage. 5c.

Palustris The true for get-me-not, beautiful blue flower; 6 inches. 10c.

Hiribilis (See Four o'clock) 5c pkt.

Momordica Very curious climber, ornamental foliage, fruit golden yellow, opens when ripe showing the seed and its beautiful carmine interior, fine for rock-work, etc., annual 10 ft. 5c

Horning Glory (See Convulvulus)

Musat Ensete (Abyssinian Banana) A splendid plant for open ground, producing a most striking effect when planted singly or in groups, thrives best in hot seasons, growing very large, 10 to 20 ft, especially when freely supplied with liquid manure. Seeds germinate easily if start ed in hot bed; tender perennial. 25c.

Musk Plant (See Mimulus)

Myosotis (For get-me-not) A pretty, small, double, aster-like flower, half-hardy perennial blooms first year if sown early, bright blue; 6 inches. 5c.

Vasturtiums (Tropaeolum) For ease of culture, duration of bloom, brillancy of color and gen-

eral all around purposes nothing excels this popular variety. Plant in moderately good soil wel drained, sunny position, quick growing and bloom profusely until hard frost comes. Tall Climbing Sorts. Orimson 5c, lilac 5c, yellow 5c, white 5c, purple 5c, rose 5c, mixed 5c.

Lobb's Climbing Nasturtiums Scarlet, white, red. 5c each.

Tom Thumb No collection of flowers should be without Nasturtiums, they grow so freely and offered such a variety of right beingt solvers. As out flower there is nothing more offertive.

and afford such a variety of rich bright colors. As a cut flower there is nothing more effective sweet-scented and pleasing in every way.

Tall Varieties mixed. 10c oz. 5c pkt.

Dwarf Varieties mixed. 15c oz. 5c pkt.

Our mixture of Nasturtiums is the finest in the country.

Vasturtium Dwarf Aurora, very fine 5c pkt,

Beauty, yellow and scarlet, 5c pkt. Bronze, 5c pkt. " "

Cardinal (Dark scarlet) 5c pkt.

" " Cloth of Gold (Light foliage) 5c pkt. "

" Crystal Palace dwarf, 5c pkt.

36 .. Empress of India (Dark leaves) 5c pkt,

..

King of Tom Thumb, 5c pkt. King Theodore, very dark, 5c. pkt. Ruby King, 5c. pkt. " "

66

Flammulum, Grandiflorium, tall. Scarlet and yellow, extra fine, 5c pkt. Vicotiana (Tobacco Plant) Delightful, sweet-scented, pure white tubular flower, blooming con-

tinuously; annual; 2 to 3 ft. 5c pkt.

iigella (Love in a Mist, or Devil in the Bush) A compact, free-flowering plant with curious looking flowers and seed-pods; of easy culture; hardy annual; blue and white mixed; 1 ft. 5c pkt Ornamental Grasses (See Grasses)

Pansies Are so well known that no description is necessary. Sow early and transplant. Ou: pansies are imported direct from the grower and are equal to the best that are offered.

Fine mixture of leading shades and colors 10c. Extra choice mixture of best large flowering varieties, 25c.

Giant Trimardeau Pansies

Fine mixed 10c.

Cardinal, fine scarlet, very showy 10c.

King of the Blacks 10c.

Golden Yellow 10c

Emperor William 10c.

Light Blue 10c.

"

Snow Queen 10c Pure Yellow 10c.

Violas or Tuffed Pansies While the Pansy Proper is a spring flower, violas flower throughout the entire season. Seeds sown in spring produce flowering plants by June which blooms until frost. Splendid mixed colors, fine varieties. 10c.

Passiflora (Passion Flower) Fine climbing plant for garden or greenhouse with a profusion of

attractive flowers; mixed. 10c.

Pentstemon (Beard-Tongue) One of the most beautiful attractive herbaceous plants; bearing long graceful spikes of rich colored flowers: if sown early and transplanted in May will bloom

in July until frost, half-hardy perennial; 2 ft. mixed colors

Perilla Foliage a dark purple, annual; 2 ft. 5c pkt.

Petunia For outdoor decoration or house culture few plants equal the Petunia. Commence flowering early and continue a mixture of bloom until killed by frost, easily cultivated, required. ing a good soil and sunny position.

Superb double fringed. 50c. Double Large Flowering fine mixture. 25c. Single Varieties

Ruffled Giant Very large, in great variety of colors 25c. Fringed Giant, Very flue. 35c. Snowball Pure white. 10c.

Striped and Blotched Small flowering. 5c.

Fine mixed, all colors. 10c.

Phlox Drummondi Of all summer flowering annuals this variety is unquestionably one or the most brilliant and satisfactory. Seed may be sown in open ground after danger of frost is past and in a few weeks the beds or borders are all aglow with their brilliant coloring until cut down by the frost. For early flowering they should be started indoors.

Phlox Drummondi Mixed colors. 5c pkt.

White 10c, pink 10c, rose 10c, scarlet 10c, red 10c.

Dwarf Phlox This strain of dwarf, compact habit, makes a desirable pot plant, also for ribbon lines and massing; 6 inches high.

Scarlet, white, pink, mixed colors

Double Phlox Especially fine for cut flowers, lasting better than the single sorts. Sow in light soils. Mixed colors 10c.

Star Phlox (Star of Quedlinburg) Dwarf, pretty star-shaped flower. Mixed colors 10c.

Hardy Perennial Phlox All colors, mixed 10c.

Pinks (See Dianthus)

Poppies An extremely popular brilliant flowering annual. Poppies should be sown where they are to remain, as they will not stand transplanting.

Single Annual Poppies Shirley's selected Strain 10c, scarlet 5c, white 5c.

Plue Poppy 14 inches high, producing many large tulip-shaped scarlet flowers 10c Single mixed 5c.

Oriental Poppy Perennial, exceedingly showy, scarlet with black centre. 10c pkt.

Double Annual Poppies Mixed colors 5c.

Pacony Flowered Large showy, double mixed colors 5c.

Portulaca (Sun Plant) Fine hardy annual, of easy culture, thrives best in rather rich light sandy loam and sunny situation, flowers of richest colors, blooming throughout the summer in great profusion, fine for beds, edging or rockwork; 6 inches. Sgl. mixed 5c. Dbl. mixed 10c
Primula Charming beautiful Chinese Fringed Primrose, fine for winter or spring

decorations. One of the most important winter-blooming pot plants, sow from March to May. White 50c pkt. searlet 50c pkt. pink 50c pkt. crimson yellow eye 25c pkt. mixed colors 25c pkt. Double mixed 50c pkt.

Primula (Obconica Grandifiora) On single white, slight tinge of lilac. Everblooming. 10c pkt yrethrum Handsome herbaceous plants of easy culture so much used for bedding edging exacure um (Golden Feather) Bright yellow foliage, 10c.

Double mixed 25c, single mixed 10c. Pyrethrum

Reseda (See Mignonette)

Rhodanthe (Swan River Everlasting) A charming annual; does well in a light rich soil and

warm sheltered situation. Fine for pot culture, flowers everlasting. Mixed colors. 5c. **Ricinus** (Caster Oil Bean) Ornamental plant of stately growth and picturesque flowers, brillians colored fruit; fine for lawns or center plants for beds, mixed all colors. 5c.

Phillippiensis 10 ft. 5c.
Salpiglossis (Painted Tongue) One of the greatest favorites among annuals. Partly on account the property for its beautiful almost orchid-like flowers. Mixed sorts 5c pk% Phillippiensis 10 ft. 5c. Partly on account

(Flowering Sage) A favorite bedding plant, bearing long spikes of flowers in great profusion from July until frost, half-hardy perennial, blooms the first year from seed sown indoors and transplanted when weather permits.

Splendens (Scarlet Sage) Beautiful bright scarlet. 10c pkt.

Patens (Blue Sage) 5c.
Scabiosa (Mourning bride or Sweet Scabious) A very handsome and autumn border plant with great profusion of very double flowers. Splendid for table bouquet; hardy annual; 2 it Doube mixed. 10c pkt.

Scarlet Runner Beans Great favorite of England and continent of Europe, not only as at ornamental climber, but for the delicious edible beans which succeed the bright scarlet blos soms. 5c pkt.

Schizanthus (Butterfly or fringe flower) Splendid annual with a profusion of various colored flowers; flue for greenhouse decorations and flower garden, of easy culture. Mixed. 5c pkt

Similar (Myrsiphyllum Asparagoides) In many respects the Smilar is the most useful, and certainly one of the most graceful climbers; for bouquets and floral decorations it is indispens able. Soak seed in warm water for 12 hours and plantin pots. A tender perennial; white: 10 ft. 10c pkt.

Solanum (Jerusalem Cherry) Very useful pot plant for winter decoration, dwarf branching habit, leaves small and oval shaped, bearing in great profusion bright scarlet globular berries 1 ft. 10e pkt.

Snandragon (See Antirrhnum)

Stocks (Gilliflower) The stock is one of the most popular annuals, either for bedding or pot culture, for brilliancy and diversity of color, fragrance, profusion and duration of bloom it unsurpassed.

Stocks (Continued)

Large Flowering 10-Weeks Stocks Red 10c, blue 10c, pink 10c, purple 10c white

10c, yellow 10c, mixed colors 10c.

Cut-and-come-again 10-weeks stock Splendid perpetual blooming class. Sow March or April. They begin flowering in June, continuing until frost, and are especially valuable from September to October when other flowers are scarce. They throw out numerous side branches, all bearing flue deuble flowers. Excellent for cutting. White 10c, rose 15c, red 15c, blue 15c. Fine mixed colors. 10c pkt.

German Stocks Haif-hardy biennial, double flowers; 2 ft. Mixed colors. 10c pkt.

sunflower Remarkable for their stately growth, size and brilliancy, making a very showy effect among shrubbery and for screens. Single sunflowers are indispensable for cutting. Sow in a sunny spot in April or May. They come into bloom early in summer and keep up a constant supply of flowers until cut down by frost. 5c pkt. Single dwarf or minature sunflower 10c pkt. Glant Sunflower, 8 ft. 5c pkt.

SWEET PEAS Ebeling's cream of the named Sweet Peas. This is a select list of giant-flowering

varieties. We have discarded all small-flowering sorts and duplicates under different names.

America Orimson scarlet, striped on white, large size. 5c pkt. 10c oz.

Blanche Ferry Extra early. The popular pink and white. Comes into flower ten days earlier than others. 5c pkt. 10c oz.

Dainty Pure white edged with pink on the standards and wings. 5c pkt. 10c oz.

Dorothy Eckford The grandest, pure white; very large, producing enormous mass of blooms. 5c pkt. 10c oz.

Gorgeous Brilliant orange salmon. 5c pkt. 15c oz.

Ling Edward VII Bright red, glant flowering, very fine, strong stems. 5c pkt. 10c oz.

Lady Griwel Hamilton The floest pale lavender. 5c pkt. 10c oz.

Lottle Eckford White shaded like, white shaded id edged lavender blue. 5c pkt. 10c oz.

Lovely Warm rose, pink, large and extra fine. 5c pkt. 10c oz.

Navy Blue Deep indigo blue, medium size. 5c pkt. 10c oz.

Othello Deep maroon, very dark maroon, fine form and large size. 5c pkt. 10c oz.

Prima Donna Soft pink; a magnificent rich, pure pink; very fine. 5c pkt. 10c oz.

Prince of Wales The finest bright rose 5c pkt. 10c oz.

Queen Alexandra Beautiful Scarlet. Very Brilliant, Handsome and desirable, 5c pkt. 10c oz.

Mrs. cktord Light primrose, large size, semi-hooded form, of the best type, to pkt. 10coz Sadie Burpee Pure white, large size, very fine. 5c pkt. 10c oz.

Double Flowering Sweet Peas Finest mixed colors. 5c pkt. 10c oz. Sweet Peas Mixed Price, 5c pkt: 10c oz; 20c 1-4 lb; 60c lb. Our mixture of sweet peasare mixed under our personal supervision and contain all of the very best named sorts known to the trade, and we confidently offer them to most careful and critical buyers. A finer mixture cannot be found.

pencer Orchid-Flowred Sweet Peas. The introduction of this type has created new interest and added to the popularity of Sweet Peas. They are quite distinct from the Stand-Spencer Orchid-Flowred Sweet Peas. ard sorts, having large, round, open flowers, extraordinary rize, measuring two inches across wavy standards, wide spreading wings, a very large percentage bearing four immense blossoms to the stem, which is long and strong, making them of exceptional value for cutting. All have been thoroughly tested and are just as easy to grow as the standard varieties. 10c pkt. 20c oz.

Sweet Rocket (Hesperis) Old-fashioned garden plant, also known as Dame's Rocket and Dame's Violet; 2 to 3 ft. high, with spikes of showy white, lilac and purple fragrant flowers fine for shrubbery and permanent border; mixed colors. 5c pkt.

Sweet Sultan See Centauria.

Sweet William (London Tufts) A well-known attractive free-flowering hardy perennial, finator beds and shrubbary; 1 1-2 ft. Sgl. mixed 5c. Double mixed 5c pkt.

Tagetes (See Marigolds and Calendula)

Signata Pumila Adwarf, compact, bushy, annual marigold with beautiful delicate force like leaves, densely covered with flowers of bright yellow striped brown; flue border plant 5c pkt.

Thunbergia (Black-eyed Susan) Beautiful rapid-growing climber used especially for hanging baskets, low fences, etc., flowers in buff, white orange, etc., with dark eyes; mixed colors 5c pkt Torenia Fine annual; splendid plant for vases, hanging baskets, borders etc., blooming the

entire season. Blue, white, and yellow. 10c pkt.

Tritoma (Red Hot Poker Plant) Readily grown from seed. Will bloom first year if sown early Tritomas are becoming very popular for bedding plants and cut flowers; hardy perennial; 4 ft Vary in color from light and deep orange, salmon and carmine. 10c pkt.

Tropæolum (See Nasturtium) Verbenas One of the most popular and free-blooming varieties and so well known that a dea cription of this variety is unnecessary. Half-hardy perennial; easy of culture; sow early and transplant when weather permits. Fine for beds, baskets, rockeries, etc. Scarlet 10c, variegat

ed 10c, white 10c, mixed colors 10c.

Viola (See Pansies)

Vinca (Madagascar Periwinkle or old Maid) Ornamental free-blooming plant, fine for bedding flower from seed the first season continuing until frost, or they may be potted and kept in bloom through the winter, 2 ft. Rose 10c, white 10c, mixed 5c.

Wall Flower (See Cheiranthus) Half-hardy perrennial, 1 1-2 ft high. Mixed 5c pkt.

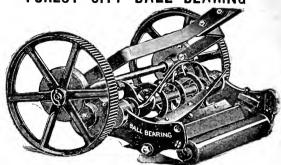
Wild Cucumber (See Echinocystis.) 5c pkt.

Wild Flower Garden 50 pkt.

Zinnias (Youth and Old Age) One of the most brilliant and showy of annuals. An old and continued favorite. The seed can be sown early and transplanted or sown later in open ground They come into bloom early in summer, and continue until hard frost. Dwarf double white, orange scarlet, rose, etc. 5c. Tall double mixed 5c. Dwarf single mixed 5c



FOREST CITY BALL BEARING



This unquestionably is the Best Ball Bearing Mower on the market. Perfect in detail, absolutely guaranteed.

					, .			O	
15	inch	-	-	\$10.00	19	inch	-	-	\$12.00
17	"	-	-	11.00	21	**	-	•	13,00

Dunham Lawn Rollers ROLLER BEARING

Are infinitely superior to other roll ers. In efficiency, being 44 per cent. lighter running than any other roller on the market by actual tests. With a Dunham a boy can do the work that requires a man's strength with other rollers of the sameweight. 300 lbs. \$10: 250 lbs. \$11; 300 lbs. \$13

Water-weight Roller

The Dunham Ball-bearing Water-weight Roller is made in one section and electric-welded, no rivets being used so the water cannot possibly leak out. The weight of this roller can be increased or diminished by increasing or decreasing the water. Very simple and easy to handle and revolutionizes the work of rolling. When not in use the water can be let out if desired. Price \$13.00.

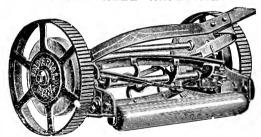
Capital Lawn Trimmer



For trimming around walks, flower beds, trees, posts, monuments and shrubbery, and all places that cannot be reached with any lawn mower. Cuts within one fourth of an inch of the edge.

Has a revolving cutter with four crucible steel blades, tempered in soil and cuts six inches wide.

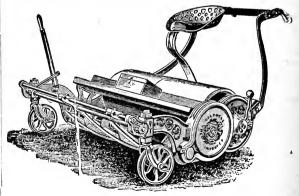
HIGH WHEEL IMPERIAL



Absolutely Warranted for Two Years. Positive Adjustment. Has no Equal. In Public Parks, Private Lawns and Cemeteries everywhere. Ask for Special Catalogue.

16 inch - \$ 9.00 20 " - 12.00 18 " - 10.00 22 " - 13.00

IMPERIAL HORSE LAWN MOWER



PRICE, \$55.00 AND UP.

Absolutely Guaranteed to Cut Clean in turning around. Send for Catalogue.

SPRING PLANTS, BULBS AND ROOTS.

	F	ER I	ooz.		EACH	DOZ.	EACH	DOZ.
Cauliflower	Plants	25	CLS	Salvia	.10	1.00 "	For-get-me-not .10	1 00 "
Cabbage	46	10-25	44	Alyssum	10	1.00 "	Dracaena .10	1.00 "
Tomato	**	25	"	Aster		.85 "	Petunia.	.50 ''
Egg Plant	44	50	44	Vincas	.15	l 75 ''	Pansy	.40 "
Pepper	66	25	**	Verbenas	.05	50	Beautiful Japanese I	Fern
Kohlrabi	"		£ 4	Geraniums	.10 1	0, "	Balls eac	h 50 "
Root Celery		3	4.6	Assorted Plan	ts.10	L.00 "	Porch banging bask	ets \$1.25
Sweet Marjo	ram ''		44	Cannas	.10	1.00 "	to \$2.00	
Sage Plants			44	Snap Dragon	.08	1.00 **	Moss for hanging .15	per lb.
Summer Sav	ory		**	Ten-Weeks St	ock 10	1 00 "	-	-
Thyme	-		"	Double Lobeli	a 121-2	1.25		

Cailadiums, Gladiolas, Dahlias, Tube-Roses, Tuberous Begonias, Maderia Vines, Peonies, Gloxinias.

CALVANIZED WINDOW BOXES

				Water						Water	
No.	Height	Width	Length	Capacity	\mathbf{Price}	No.	Height	Width	Length	Capacity	Price
0	6-in.	6	16-in.	1 qt.	\$1.50	6	8-in.	91/2	33-in.	5 qt.	3.00
1	8-in	91/2	23-in.	2½ qt.	1.75	7	8-in.	91/2	35-in.	5½ qt.	3.25
2	8-in. 8-in.	9½ 9½	25-in. 27-in.	3 qt. 3 ½ qt.	2.00 2.25	8	8-in.	91/2	37-in.	6 qt.	3.50
4	8-in.	91/2	29-in.	4 at.	2.50	9	8-in.	91/2	39-in.	6½ qt.	8,75
5	8-in.	91/2	31-in.	4½ qt.	2.75	10	8-in.	$9\frac{1}{2}$	41-in.	7 qt.	4.00

FLORISTS' SUNDRIES

Self Registering Thermometers Hanging baskets Tin Roll Flower Supports Green Moss Plant Stands Florist Letters Trellisses Raffla and Reed Shears Immortelles Scissors Mastica Fine Cutlery Syringes for Plants Plant Lables Fumigators Flower Pot Brackets Bulb Syringes Sharpening of Shears, etc. Glazing Points Lawn Seed and Fertilizers Flower Pots Bird Supplies Hyacinth Glasses Wire Plant Supports

Silkaline, per spool, 30 cents

STRAWBERRY PLANTS

We are pleased to announce that we can furnish choice thrifty STRAWBERRY and RASIBERRY Plants of all the leading varieties and recommend them to our customers.

Strawberry Plants 75c per 100; Raspberry Plants \$1.50 per

100. Leave orders early.

BERRY BASKETS.

Under the new law all Berry Baskets must be made up to the standard size. We offer Berry Baskets of correct size and shape and well made. Prices right. Our Baskets fit the Crate perfectly. We can save you money on berry baskets if you place orders early. Call and see us before buying.

GRAPE BASKETS

We carry a large stock of Grape Baskets at the lowest market price.

FLOWER TUBS, ALL SIZES \$1.00 \$1.50 \$2.00 \$2.50 \$3.00 \$4.00



Flower Pots

Hanging Baskets

Fern Pans

Lily Pans

TRELLISES, URNS, VASES, SETTEES.

We offer a fine variety of styles in various sizes suitable for lawns front, yards, cemeteries, parks etc. These can be furnished toorder on short notice, at reasonable prices. For full particulars, write or call and see us.



MASTICA FOR GLAZING GREENHOUSES, SASHES,

Etc., new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold.

Every green house man has experienced difficulty in using putty for glazing, that is satisfactory for any length of time. Putty is not adapted for greenhouse work. "Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically scaling the substance, and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of re-laying the glass.

The use of "Mastica" avoids the necessity of repeatedly regizing the houses, saving much time and expense. With "Mastica" you can bed in or

use outside with machine.

Broken glass can be easily removed and replaced by new without the breakage of other glass, which usually occurs with hard putty. One gallon will cover about 290 running feet (one side.)

Price of Mastica 2 gal. 65c., gal. \$1.35.



PRICE \$1.50.



Roto Salt Cakes and Frames

For Horses, Cattle and Sheep. Pure Refined Salt. Acts as a tonic; invigorates the system; promotes digestion; purifies the blood.

25C. CAKE

Five Cakes for One Dollar

Frames,

25 Cents

Climax Handy Weeder



The greatest "little" device ever invented.

Nothing like it.

Thousands in use.

PRICE, 75 CENTS



Waters Tree Pruner 75e to \$2.00



OUR F. G. F.

PRUNING SAW.

This is a very practical Pruning Saw, and is recommended by the Nurseries and Horticultural Societies everywhere. It is a self-feeding draw cut blade with a thin back that will not pinch or bind; may be attached to a pole, permitting very rapid work. It will do three times the work of hand saws or shear trimmers. It has no equal for cutting out suckers and for trimming the outside and tops of trees so difficult to reach. No stubs are left. It covers all the features required for an up-to-date labor-saving tool.

Price \$2.00.



No. 6. Fig. 114. Combined, Includes all Tools Shown, Priec \$12.00

For market gardeners, they save time in their operation, save ground because you can plant close as crop will stand, save seed because of sure planting at any distance apart or in continuous rows as thick as you wish.

You can cultivate more thoroughly and more carefully than with a horse, and work with wheel hoes until first crop is harvested.

For home gardeners, they take away all of the drudgery of hard work and make garden cultivation into real pleasure and profit-better crops than you could have with the old-fashioned hoe. Your wife and children can operate them.



No. 1, in narrow rows of onions.

For Poultrymen, this is another means of keeping your chicks healthy and makes but little work--stir the soil in your chicken yard, also turn under a few oats and let them scratch for it.



An old gentleman cultivates this garden alone.

The No. 6. Combined, shown on this page is four machines in one--a hill dropper, drill seeder, double wheel hoe and single wheel hoe. Sows accurately any kind of small seed. Has force feed with brush agitator that does not injure the seed

With the tools here shown you can hoe between or astride the rows, cultivate, furrow, cover, ridge growing crops, weed and level the ground. Its wheel hoe form is known as No. 1, shown on next page.

Ask for Iron Age Booklet "Gardening with, Modern Tools"



This lady does her own work. This is the only tool on the market that can be changed to double or single

wheel, changes take but a few minutes.

Steel pipe frame and steel wheels. Regular bicycle construction; light and strong. The 16 inch wheels ride furrows and holes easily and carry the frame high enough to pass over 20 inch plants when cultivating astride the rows. The work

tivate ten times as often as with the old hoe-also much better and safer.

The NORCROSS ADJUSTABLE GARDEN

CULTIVATOR.

ON AGE WHEEL

are practical, every-day tools for everybody interested in making gardens, big and little.

No. 1 Double and Single Wheel Hoe



Price, complete, \$7.00. With side hoes only, \$4.25

No. 20 Single Wheel Hoe

Takes all of the cultivating tools we show in connection with it, also hill and drill seeder attachment which makes it into

No. 15 combined Hill and Drill Seeder and Single Wheel Hoe, Price \$11.00.

If No. 20 is wanted with side hoes only, order as No. 21, \$4.00.



No. 20 Ridging Celery.

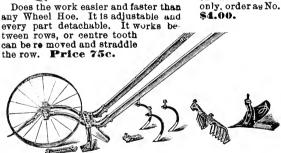
No. 10 Wheel Hoe

16 inch steel wheel, steel pipe wheel bracket side hoes only. Is especially good in onions, hoes clese without danger to the plants if the seed has been put in right.

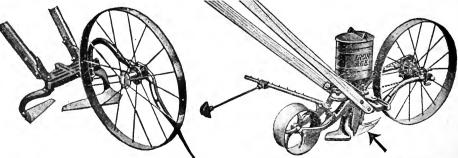
No. 18-B Seed Drill

Sows the seed in very narrow row so that the plants can be cultivated close and save needless hand weeding.

Ask for new Iron Age booklet, "Gardening with Modern Tools".



No. 20 Single Wheel Hoe. Price, complete, \$6.00



No. 10. Single Wheel Hoe, with side hoes only, \$3.25

No. 18-B. Seed Drill, with special plow for onions 87.50

When fit-

WHEEL HOES IRON AG AND DRILLS

Here we have No. 12 plowing the garden in deep, true furrows. Of course it will not do this in hard ground. This tool is low in price and within the reach of every mechanic and laborer. It does all of the necessary cultivating, weeding, furrowing, covering, ridging, etc., in a small kitchen garden. It is a very light tool, easily handled by anyone.



No. 12. Price, \$3.50



Plowing all of the garden with No. 12 fine tool to stir up the chicken yard. Makes the chicks healthy

No. 25. Fertilizer Distributor

is made by putting a distributor

attachment on No. 20 frame. Spreads fertilizer in a broad stream across an open furrow, or at one side of a growing crop, or each side. The same attachment will fit No. 1 Wheel Hoe. Handles all commercial fertilizers economically.

Capacity of Hopper about four quarts.



"NEW MODEL" SEED DRILL

Opens its own furrow, sows accurately in continuous rows, any thick-

Combined Fertilizer Distributor.



Price, \$8.00. Nu. 20. Attachment only \$4.50

ness wanted, covers the seed, rolls the soil over it and marks the next row. Marker is adjustable. Index helps you to set right for sowing; flow of seed can be cut off instantly.



Handles all commercial fertilizers in proper manner. Separate plows open two furrows for fertilizer and cover ers follow each plow. Then, another plow opens a furrow for the seed which drops where it cannot touch the fertilizer. The seed is covered. rolled and next row marked in one operation. Practically the same seeder attachment as on no 6. Sows in hills or drills.

No. 23 is the plain form of this tool without seeder attachment—is used principally for side dressing.

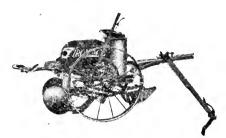
Hill and Drill Seeder No. 22

No."22 Combined Price, complete, \$18. No. 23 Fertil zer Distributor only Price, \$13. Seeder Attachment only Price. \$5.

Ask for new Iron Age booklet "Gardening with Modern Tools"

IRON AGE

POTATO MACHINERY



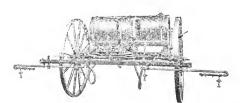
Nσ. 400R \$78.00 With Fertilizer Attachment

Ask for new booklets on any of these tools. They stand for bigger yields of potatoes.

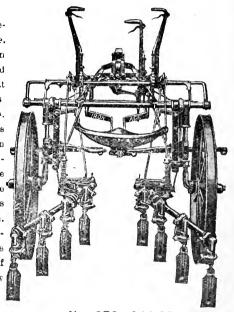
100 per cent. Potato Planters. They plant one seed piece in every space and one only. The work is entirely automatic with a place provided for a man or boy to correct doubles that waste seed, and misses that eat up fer ilizer and soil. Made this year with new steel frame and steel seed box lighter, stronger and more durable. Furnished with or without fertilizer distributor. Four styles of opening plows.

Steel Frame Riding Cultivators

Steel frames, steel pole connections, steel singletrees, nothing of wood but the pole and neckyoke. Pivot wheel machines, easily guided especially on hillsides. No. 878, 886, 898 have 32 inch wheels and represent 8 hoe pivoted round bar gang, 6 hoe flat bar gang and 8 hoe mig-zag flat bar gang machines Adjustment of gangs for rows 28 to 48 inches. Adjustment of teeth for depth or angle. Levers control adjustments while machine is in motion but the teeth always face the same way as adjusted for your work. No matter which way the gang lever is moved, spring pressure keeps the teeth in the soil. Furnished with break pin hoes but can be fitted with spring hoes or spring teeth. Nos. 608, 626, 638 are our high pivot wheel machines, 42 inch. Wheels can be set to accomodate rows 39 to 50 inches apart and this is the range of cultivation. In other respects similar to the low wheel machines



Four Rows at Once in a Large Field. \$75.00



No. 878, \$44,00

Traction Sprayers. Four and six-row, 55 and 100 gallon, single or double acting pumps, the best in use on any Sprayer. Special spray bars for all kinds of crops, tomatoes, pickles, grain, etc. New drop nozzle Sprayer that covers the underside of the leaves as well as the top. Wind shift attachment and nozzle strainers with each regular complete outfit.

ASK FOR

IRON AGE

BOOKLETS

IRON AGE BUCKET, BARREL AND **POWER SPRAYERS**



Ask for new Sprayer Book let. It will help you choose the right outfit. Ask for Spray Calendar also.

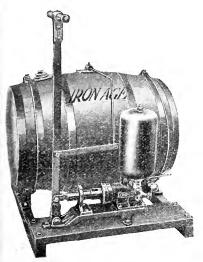
A full line of Sprayers, Built-up outfits, complete in themselves or to add to what you already have. For spraying all kinds of crops, whitewashing, cold-water painting, window and wagon washing, etc.

No. 192 Bucket Pump is built of brass and malleable iron. There is no corrosion-it handles all kinds of solution, hot or cold, and develops 100 lbs. constant pressure. Bronze ball valves and candle-wick packing are used and you do not have to take the pump apart to get at them. Simply unscrew stuffing box nut for the packing and valve seats for the valves. Prices, No. 195 with bucket, \$10.00; No. 197 with 20 gallon barrel and truck, \$21.00.



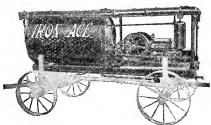
No. 194T. \$29.00

No. 192, \$7.50



\$25.00 No. 190.

No. 194-T is a vertical pump with barrel and truck. One man can easily handle this outfit. Pumps are all outside except suction pipe and agitator—there is no corrosion, they are clean to handle and valves and packing are easily got at. No. 194 is the smaller size (pump only), pressure 100 lbs. with two nozzles. Price, without barrel, \$14.00. No. 191, the larger of the two, is capable of 100 to 125 lbs. with four nozzles. Price, without barrel, \$18.00.



i50 Gallon 2 H. P. Engine Double Acting Pump

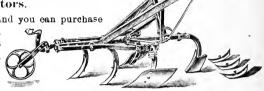
No. 190 Horizontal Barrel Sprayer. This outfit will not tip on hillsides and may be used from the back of any cart, sled, stone boat, etc. The pump is single acting with bronze ball valves and hemp packing. Develops 100 to 125 lbs. pressure with two nozzles. If wanted with double acting pump, price \$37.50. With double acting pump, pressure gauge and relief valve. price \$40.50.

Power Sprayers are made in 50, 100, 150 and 250 gallon sizes., with single or double acting pumps and 1 to 31-2 H. P. air or water cooled engines (one H. P. air cooled only), direct connected with cut gears or chain driven. You can buy just the outfit you need.

HORSE HOES AND CULTIVATORS

Ask for complete new booklets on Horse Hoes, Harrows and Two-Horse Walking Cultivators.

These tools are all made standard and you can purchase them in their simplest forms and build up to whatever your ground or crops nee i- with or without lever expander, with lever or plain wheel or without either, etc. Long, high steel frames. make them run steady and clear of trash.



No. 600 EP \$8.00.

With lever expander and plain wheel.

No. 600-EP Horse Hoe and Cultivator has a range of cultivation from 11 inches to 30. The hoe standards are solid steel, attached to the frame bars with malleable ratchet castings that give adjustments to the hoes at any angle.

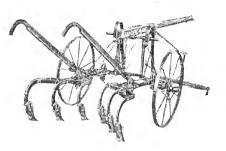
No. 1014 EP \$6.90.

No. 1014-EP Harrow and Cultivator carries 14 diamond shaped steel teeth with a small cultivator point forged on one end. It is adjustable for many kinds of crops and may be used as a Harrow or Cultivator. Opens to 34 inches and closes to 11.

No. 1007-EP Seven Tooth Cultivator. Especially adapted for first workings or in level cultivation. The teeth are narrow and cut deep, throwing small furrows that do not harm Thorough cultivation in all the young plants. soils. Opens to 24 inches and closes to 10.



No. 1007 EP \$7.15.



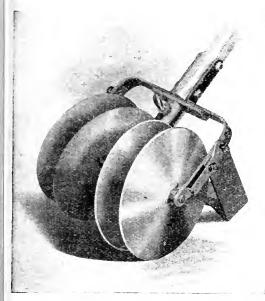
No. 976. \$26.00,

Two-Horse Walking Cultivators.

These are balance frame machines that are often used on steep hillsides or in very rough ground.

The gangs shift in parallel lines, the points always face one way and the handles are adjustable to permit the operator to work astride the row or at one side. The wheels are steel and adjustable on the arch from 36 to 48 inch rows. Built with 6 or 8 break pin or spring hoes or with spring teeth.





The Discs can be adjusted to any angle, throwing soil to or from the plants.

Perfection Garden Gultivator

Different from Others Superior to All

This New Disc and Knife Weeder and Mulcher excels and supersedes all. In it is found the best characteristics of others simplified to the accommodation of the professional trucker or home gardener.

It has no attachments and no encumbrances, is complete in itself. It does the weed killing, cultivating and mulching at one process. This is something that no other cultivator accomplishes. It is a perfect hand cultivator.

No attachments are necessary to make it do the work needed. By a simple changing of the bolts it automatically adjusts itself to suit the occasion. It can be worked in gravel soil, through sticks and coarse straw or stubble of any kind. In stony land it works as well as in the softest loam.

It is adjustable to different angles, each change adapting it to different modes of work. Different soils require different adjustment, and dry weather needs a deeper mulching than when the ground is moist.

For thirty years a satisfactory hand cultivator has been sought for; improvements, combinations and auxiliaries have been added to the older makes without resulting in complete satisfaction. In this new weeder, however, the defects have been overcome and satisfactory work is the result.

It does away with combinations and attachments. It does all the work that any combination or attachment can do.

Perfection Garden Cultivator

is made in three sizes, viz:

No. 1-6 inches wide.

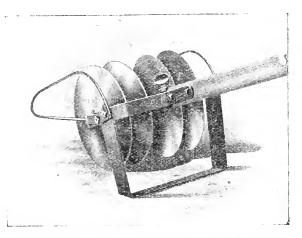
No. 2-8 $\frac{1}{2}$ inches wide.

No. 3-11 inches wide.

The 6-inch size is needed for Lettuce and Crops that are planted closer than 12 inches apart. The 8½-inch size is the Standard Machine and is used for all Garden Crops that are 12 inches apart or over. The 11-inch size can be used where the rows are 14 inches apart or over.

PRICE \$5.00 EACH

EITHER SIZE



The stiff wire leaf guards keep the tops of the plants away from the discs. The Knife in the rear Draws Discs into the ground.

The Three Greatest Insecticides

SIMPLE, EFFECTIVE, ECONOMICAL

LIME AND SULPHUR --- PYROX --- ARSENATE OF LEAD

BOWKER'S LIME AND SULPHUR

Every spring when the buds are swelling, but before they show green at the tips, all your fruit trees, vines and shrubs of every kind should be sprayed with our Bowker's Lime Sulphur. Applications made later than this may burn the foliage and cause serious injury. Therefore you should order early and be prepared for the season.

SPRAYING WITH LIME-SULPHUR IS CHEAP INSURANCE

It's better than most insurance because every time you spray you reap a benefit, whether you have San Jose Scale present or not. It kills all forms of scales and bark lice which are always present, the leaf blister mite, the eggs of many insects and the fungus spores which are lodged on the bark. It checks the growth of mosses and lichens and cleans up the trunk and the large branches.

Lime-Sulphur is not a poison and kills only by coming directly in contact with the insect. It does not kill leaf-eating insects. Spray for these with our Pyrox.

Our Lime-Sulphur has fungicidal properties and is invaluable for use on peaches, plums and

all stone fruits.

It's in concentrated solution, always ready for Fall, Winter and Spring use. You simply add spring water and then spray.

ANALYSIS—Gravity (Beaume) 32 to 35; Calcium Polysulphides and Finosulphate 27.50 to 38.50.

1 gal. 65c.; 5 gal. \$2.00; 10. gal. \$3.50; barrels at 16 cts. per gal.

BOWKER'S PYROX--KILLS AND CURES



Pyrox sticks like paint; kills all leaf-eating insects, and prevents disease on potatoes, fruit trees, shade trees, and small fruits and vegetables. It serves the purpose for which two mixtures were previously used, and has done so for over ten years. Pyrox is no experiment; it was introduced in 1898.

It combines non-burning Arsenate of Lead with non-burning Bordeaux Mixture—both thoroughly tried-out remedies—in the shape of a dense, heavy, creamy paste that looks like paint, is easily mixed with cold water, and sticks like paint to the foliage. It won't wash off.

Bowker's Pyrox is something more than a combination of Arsenate of Lead and Bordeaux. It is a mixture with reliability and brains behind it; a mixture with aboratory and field experience to support it; a mixture made by careful methods in a modern plant under expert supervision. Such a combination costs more to make and is worth more to buy because of the insurance the name affords against haphazard preparations. Paris Green and Bordeaux applied together or separately never adhere through heavy rains like Pyrox. Frequently our customers send us sample leaves from trees sprayed in May or June that show plenty of Pyrox adhering in Octob r.

It Won't Wash Off. If it were not for the new growth coming along, as is usually the case with shade trees fruit trees shrups noteto gings attended which of course must be protested.

ase with shade trees, fruit trees, shrubs, potato vines, etc., and which of course must be protected, one spraying would be enough for the season. 1 lb. 25c.; 5 lbs. \$1.00; 10 lbs. \$1.75; 25

lbs. \$4; 50 lbs \$7.50; 100 lbs. \$13.50; 300 lbs. \$38.

INSECTICIDES.

Arsenate of Lead, 1 lb. 25c; 5 lbs. \$1.00; 10 lbs. \$2 00; 20 ibs. \$3 75.

Black Stuff, Tobacco Powd r, per lb 10c.

Bug Death, 1 lb. 15c; 3 lb. 35c; 5 lb. 40c; 12 1-2 lb. \$1 00; 1(0 lb \$7.00.

Carbolinium, 1 or 2 gals. \$1.25 per gal.; 3 gals. \$1.15 per gal.; 5 or 10 gals. \$1.00 per gal.

Cooper's Sheep Dip, pkg 50c. \$4.00.

Eureka Fumigator, \$1 25.

Eureka Weed Killer, per can \$1.50.

Fir Tree Oil Soap, per pkg. 30c.

Fir Tree Oil, 1-2 pint, 75c; pint, \$1.00.

Hellebore, per lb 25c

Jumbo Powder Gun, 25c.

Kerosene Emulsion, 35c., \$1 00.

Lambert's Death-to-Lice, 10c., 25c., 50c., \$1.00.

Lime-Sulphur, see page 9.

London Purple, per lb. 40c.

Nico-Fume for spraying and vaporizing, pint cans, \$2.00; 1-2 gal., \$7.(0; 1 gal., \$13 50. Nico-Fume Tobacco Paper Insecticide, for fumigating, 24 sheets, \$1.00; 144 \$4.50; 288 \$8.50. Nicoticide, 1-2 pt. \$1.25, pt. \$2.50. Paris Green, \$6 c

Persian Insect Powder per 1b 50c.
Pyrox, 1 lb. 25c; 5 lbs. \$1.00; 10 lbs. \$1.75; 25 lbs. \$4.00; 50 lbs. \$7.50. Slug Shot, 1 lb. carton 1cc. 5 lb 30c. sulpho Tobacco Soap, 10c and 20c. Pobacco Dust lb. 10c

Sulpho Tobacco Soap, 10c and 20c. Tobacco Dust, lb. 10c. Tobacco Soap per pkg 25c. and 50c. Tobacco Stems. lb. 5c., per bale, \$2.50.

Tobacco Stems. lb. 5c., per bale, \$2.50. Weedicide, per gallon, \$1.50. Whale Oil Soap, 10c., 15c., 25c. Whale Oil Soap in bulk, per lb. 6c

Whale Oil Soap and Tobacco, 1 lb. 15c; 5 lbs. 60c

SLUG SHOT-It is a light, composite, im-



TRADE MARK

palpably fine powder, easily distributed by Duster, Bellows, or in water by spraying. It is thoroughly reliable in killing Currant Worms, Potato Bugs, Cab-

bage Worms, Lice, Slugs, Sow Bugs, etc., and is also strongly impregnated with fungicides.

CARBOLINIUM

Insecticide and wood preserver.

Per	- 1	gallon,			\$1.25
4.6	5				1.15
4.6	10	66			1.00

Special prices for larger quantities.

Price

\$7.50

CHAMPION DRY POWDER GUN.



A wonderful invention. Light, swift, safe strong and cheap. Dusts the pure green. Kills all the bugs and pests without injuring the vines or foliage. Less green used and better results obtained.

Sterlingworth Whale Oil Soap and Tobacco.

Sterlingworth Whale Oil Soap and Tobacco is a most effective, reliable, simple and cheap preparation for destroying San Jose Scale, Plant Lice and all sucking insects on trees, shrubs, plants. vines, rose bushes, etc. The efficiency of this Boap is further increased by the addition of tobacco extractive matter and potash. The preparation thus compounded possesses all the virtues of Whale Oil Soap, and, in addition, the valuable insecticide properties of tobacco and potash, making it doubly valuable. Full directions on each package. Price, I lb box, 15c.

Remedy for Cut-Worms on Cabbage and Tomatoes.

Soak bran with Paris green and scatter same in the rows. This will detroy this tro ublesompest.

To Destroy Ants in Hills, Etc.

Inject bi-sulphate of carbon in the hills. This will destroy them promptly.



SULPHO-TOBACCO

Quickly exterminates all insect life on plants or flowers in and out of doors. Unsurpassed for rose bushes. For a cheap, effective, clean and harmlessInsecticide this is unexcelled. It also acts as a valuable fertilizer reviving plant life. For domestic purposes it rids the house of cockroaches, and is a superior wash for dogs and all animals. Prevents poultry lice. You cannot afford to be with-

well known Insecticide, if you desire to be successful in plant culture. A trial will give highly gratifying results.

3-oz. Cake, sufficient for 1 1-2 gallons prepared solution, 10c; mailed postpaid 13c.

8-oz. Cake, sufficient for four gallons prepared solution, 20c; mailed postpaid 28c.

With every order we enclose free a booklet "The Window Garden" giving valuable information of Plants, and exterminating of Insects.



BUG DEATH.

This Insectidide and Plant Food combined has been on the market for ten y-ars. While the first cost to kill the bugs on an acre of potatoes is rather more than the arsencal insecticides, the extra yield of marketable potatoes has more than paid the en-

tire expense. It is non-poisonous, which makes it perfectly safe to use on all plants or vines. BUG DEATH PREVENTS BLIGHT.

Put up in Packages as Follows.

1 p	ound r	ackage,	•		\$.15
8	"	" "			.35
5	44	46			.50
12 1-2	66	66		·	1.00
100	46	"			7.00
Dickey B	ug Dea	th Duster.	•		.25

SWIFT'S STANDS FOR QUALITY

POISON ARSENATE © OF (LEAD



REG. TRADE MARK

INSIST ON HAVING SWIFT'S It destroys leafeating insects. It stays well in

suspension.

It will not wash

off like Paris Green.

It is ready to mix and sure to kill.

It cannot clog the pump.

SWIFT'S I lb. 25c.; 2 lb 50c.; 5 lbs. \$1.00

Description of "Auto-Spray" No. 1 CAPACITY—ABOUT FOUR GALLONS

The Auto-Spray No. 1 is the strongest and most simple in its working parts of any compressed air sprayer. Practical in every variety of spraying, for trees, vines,



potatoes, tobacco and all field crops; also for handling disinfectants and whitewash in the poultry house.

The Auto-Spray when equipped with the Auto-Pop attachment is a saving over any other machine for applying solutions to potatoes, etc. The pressure of the fingers opens the valve and allows the solution to pass and by removing the fingers the valve closes automatically. By this arrangement no solution is lost. Two or three pumpings will empty the tank. After

pumping, the operator has only to direct the spray.

Tank-Either heavy brass or galvanized iron. The tanks are made of heavier material than used in other machines of this kind. Seams locked, soldered and riveted.

Pump-Seamless brass, 2 in. diameter. The pump is locked atr tight to the tank by direct pressure from a sliding cam operated by simply turning the hand. No screw connections to wear or leak.

Equipment—Each machine equipped with 2 ft. half-inch hose. fine spray nozzle, solid stream cap and either stop-cock "B" or our patented self-cleaning Auto-Pop No. 1, "A," as ordered.

Guarantee-We warrant the Auto-Spray No. 1 to be perfect mechanically and to give satisfaction in every case, and will refund the purchase price to any dissatisfied customer within ten days after receipt of machine.

Auto-Spray No. 1-B, brass tank with Auto-Pop	\$7.25
Auto-Spray No. 1-D, galv. tank with Auto-Pop	5.00
2-ft. Brass Extension	
Brass Elbow	
Brass Strainer	1.00



"MIDGET" SPRAYER

A small Sprayer for household uses. Holds one pint. Small and compact. Made of heavy tin. Fine for house plants, etc., etc. Price 25c Each.

"NEW MISTY" SPRAYER

For spraying bushes, vines, garden truck and stock. Made of heavy tin. Holds 1 quart. Has black handle and plug, 4-in. pump rod. Best sprayer that can be made for the money. Price 50c each.



Net Cash Prices.

U. S. DEPARTMENT OF AGRICULTURE BUREAU OF PLANT INDUSTRY NOTICE

Office of Chief of Bureau

In the analysis of seed, attention is called to the fact that the Department of Agriculture cannot give specific information as to whether a certain kind of weed seed found present is likely to be injurious or not. It may, however, be laid down as a safe rule not to plant commercial seeds containing dodder, Canadian thistle, quack-grass, or wild carrot. If the aggregate number of other foreign seeds does not exceed 1 or 2 per cent, it is probably as clean a sample as can ordinarily be obtained in commercial practice.

Farmers are especially urged to familiarize themselves with the practical literature. The following publications on this subject are available:

Farmers' Bulletin No. 28, Weeds; and How to Kill Them.

Farmers' Bulletin No. 194, Alfalfa Seed.

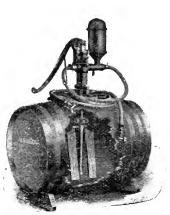
Applications for Farmers' Bulletins should be addressed to The Secretary of Agriculture, Washington, D. C.

GOULDS HAND SPRAYERS

Pomona-Standard-Monarch







Goulds "Standard" Barrel Sprayer



Goulds "Monarch" Two-Cylinder Sprayer

The Pomona is an extra high-grade barrel sprayer with sufficient capacity for two leads of hose and four nozzles. The plunger, plunger connection, gland, valves, valve seat and strainer are solid bronze and are not affected by chemicals. An agitator keeps the solution well mixed, this agitator being operated by a connection to the pump lever. The plunger is $2\frac{1}{2}$ inches in diameter and the stroke is adjustable, 3, 4 or 5 inches.

The Standard is arranged so it can be mounted on the end or side of the barrel as desired. It is made in two sizes with 2½ or 3-inch cylinder. The working parts are bronze. The differential plunger gives a constant even pressure. Price includes brass suction strainer, but does not include suction pipe and agitator.

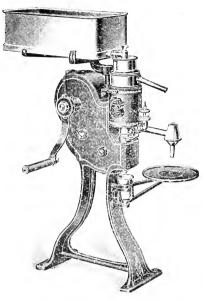
The Monarch is a large capacity pump for use in a wagon or on skids with the barrels of solution separate. It is useful in large orchards where a barrel sprayer is not of sufficient capacity. This pump is also widely used for whitewashing and painting.

Pomona	With Agitator and one lead 15 feet $\frac{1}{2}$ -inch discharge hose, with "Mistry Jr." spray nozzle.	Price	\$15.00
Pomona	With Agitator and two leads of 15 feet each ½-inch discharge hose, with "Mistry Jr." spray nozzles.	Price	\$18.00
Standard	2½-inch sprayer with 1-inch iron suction pipe, brass strainer, and one lead of 15 feet ½-inch discharge hose with "Mistry Jr." spray nozzle. With Fig. 1321 agitator.	Price	\$16.00
Standard With Air Chamber	2½-inch sprayer with 1-inch iron suction pipe, brass strainer, and two leads of 15 feet each ½-inch discharge hose, with "Mistry Jr." spray nozzles. With Fig. 1321 agitator.	Price	\$18.50
*Monarch	2-inch cylinder, fitted with 5 feet %-inch suction hose with strainer, Fig. 70, 2% inches diameter, and one lead ½-inch discharge hose 15 feet long with one "Mistry Jr." spray nozzle.	Price	\$29.00
*Monarch	$2\frac{1}{2}$ -inch cylinder, fitted up in same manner except has 1-inch suction hose and strainer, Fig. 70, $3\frac{1}{4}$ inches dlameter.	Price	\$36.00
*Monarch	2-inch, fitted same manner with 2 leads ½-inch discharge hose, each 15 feet long, and 2 "Mistry Jr." nozzles.	Price	\$33.00
*Monarch	2½-inch cylinder, fitted in same manner except has 1-inch suction hose and strainer, Fig. 70, 3½ inches	Price	\$40.00

^{*}The above prices on Monarch Pumps do not include a barrel.

diameter.

UNITED STATES CREAM SEPARATORS



No. 40, guaranteed capacity 175 lbs. \$30.00

on application.

To enlarge the income from your dairy you must install modern equipment, such as the United States Cream Separator.

The Interlocking U. S. Separator has NICKEL SILVER skimming sections which are guaranteed to never rust.

The MECHANICAL WASHER furnishes the most complete and quickest method of washing.

The U. S. Cream Separator with its improvements is a SANITARY MARVEL. Important new features make the BEST Separator still BETTER—the MOST PERFECT ever produced anywhere by anybody.

A great SANITARY feature is the new REMOV-ABLE LINER for bowl chamber. It is non-rusting and easy to wash. Milk, even in the smallest quantity, coming in contact with cast iron makes all other Separators unsanitary. The liner, exclusively a U. S. feature, prevents milk contact absolutely.

A new feature is the AUTOMATIC OIL CON-DUCTOR which conveys fresh oil from the neck bearing to gear chamber and with its DUST SHIELD serves a dual purpose by keeping all foreign matter, dust, etc., from the gear chamber and lower bearing, adding years to the life of a Separator and permitting the machine to always run as easy as when new.

No. 16, guaranteed capacity 600 lbs. \$85.00

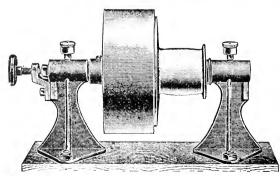
A U. S. Cream Separator will make you the most money, because it skims the closest. It holds the World's Record for closest skimming in fifty consecutive runs with milk from ten different breeds of cows.

Latest Interlocking Style

No. 18.	4.4	"	350 "	65.00	No. 14, No. 12.	64	"	1000 "	110.00
No. 17,	6 6	**	450 ''	75.00	No. 12,	"	"	. 1000 '' 1350 ''	135.00
		Power	Attac	hmen	ts for I	Dairy S	Sizes	-	
Clutch Pu	ılley, 14 i	n. diam., 3	in. face,	includin	g shaft for	crank			\$3.50
With add	ition'al L	oose Pulley	, extra.						3.00
	Pulleys	12 inches	diameter	can be	supplied if	desired a	at same p	orices.	
Separator Shifte	s fitted or for Wo	with Ratch rm Gear Sl	et and I haft (who	loose Pu en ordere	lleys 3 in. ed with sep	diam., 1 parator).	¼ in. fac Addition	ee, with B al price	elt 6.00

3-inch Pulleys with necessary attachments (when not ordered with separator). Prices

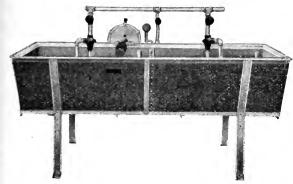
THE RANDOLPH GOVERNOR PULLEY



As shown in the adjoining cut absolutely governs the speed of the separator, releasing automatically when the proper speed is attained and absorbing all shocks from the gasoline engine. It runs in either direction without any change or adjustment. The pulley standard can be placed on the floor, side wall or overhead to suit conditions. We have embodied in the construction of this pulley the loose pulley feature whereby the Separator may be stopped without stopping the engine.

Attention is called to the fact that after the proper speed has been attained by setting the jamb nuts on the hand-wheel thread the correct speed will be maintained without further notice. Price, \$10.00.

THE CHAMPION BOTTLE WASHING OUTFIT



Our large No. 2 Wash Sink, built of heavy galvanized iron, with channel iron legs and heavy bracing. Two compartments, one for soaking and one for rinsing.

The Bottle Washer is operated by a steam turbine, running on a very low pressure. The mixing tees furnished for heating the water are noiseless and heat very rapidly, due to the fact that there is a perfect circulation of water and no loss of steam.

This outfit complete with

washer, steam gauge, mixing tees, valves and piping as shown in cut. Price \$45.00.

No. 2 Sink without washer or piping, size 74 in. x 30 in. x 18 in. deep. Price \$20.00.



WASH SINK

No. 1 Wash Sink

Heavy galvanized iron with drain shelf, channel iron frame. Well braced.

Size, 36 inches high, 24 inches wide, 60 inches long over all. Price \$15.00.

SENSIBLE BOTTLE FILLER

It is sensible because it is so simple, no levers, no springs, just a heavy tin tank made of IXXXX Cookley K Charcoal tin plates, holding 60 quarts, and with two faucets in the bottom. These faucets are operated fully as rapidly as any automatic device. They are straight bore and easily cleaned. The novel feature of this Filler is the filters which are attached to the faucets. These remove any particles which may have remained in the milk, and cause the streams to flow in smooth, even columns.



We have built the Sensible so strong and heavy that it will last a life time. You can find no more sensible way to fill your bottles. Price \$3.50,

CHAMPION MILK COOLER ÆRATOR

Automatic, Simple, Efficient, Durable.



1-10 qts., 1 to 10 cows, 2 milkers, \$5.00

2—18 qts., 10 to 25 cows, 3 milkers, **6.00** 3—34 qts., 25 to 50 cows, 5 milkers, **7.00**

4—52 qts., 50 to 100 cows, 8 milkers, 10.00

Extra sizes on special orders.

Prices include double cheese cloth strainer and spring pins.



FOR SALE BY F H Ebeling

hog or sheep.

- · · · · · · · · · · · · · · · · · · ·									
Each	10 lb	. drum\$.75	Each 100) lb.	keg	5.00		
Each	20 lb	drum	1,25	Each 20) lb.	bbl	9.00		
Each	40 lb	drum	2.25	Each 30) Ib.	bbl	13.00		

VERMIN EXTERMINATOR JAPANESE We Sell It

For Rats and Mice and Roaches and Bedbugs

FOR RATS AND MICE Kills them under all conditions. They eat it in preference to other food. NO STENCH. It dries them up, leaving only the pelts.

FOR ROACHES AND BEDBUGS They eat it, and it destroys them. Results are satisfactory. No danger in applying. It is a paste and easy to use. It is guaranteed.

Cans, 25c, 50c and \$1.00



In 1907, we began experimenting on compounds for protecting vegetation from the Cut Worm. Since that time we have compounded over thirty different formulas for combating this pest, none of which were offered for sale.

Were offered for sale.

We now offer STERLINGWORTH CUT WORM KILLER as a preparation, which is quick and sure in effect and non-poisonous to animals. It is so alluring to Cut Worms that they are irresistibly attracted to it and eat it in preference to any vegetation. Dead Cut Worms may be seen wherever there are Cut Worms and STERLINGWORTH CUT WORM KILLER has been used.

To protect plants in hills, sprinkle a small quantity of Killer around the plant. When in rows, sprinkle both sides of row.

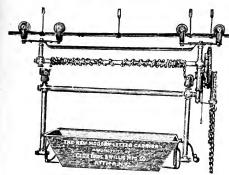
NEVER sprinkle the plants with STERLINGWORTH CUT WORM KILLER, for the worm will climb for it and is likely to destroy the plant in reaching the Killer.

One pound is sufficient for 175 plants when in hills, and 150 linear feet of pqlants when rows.

in rows. Put up as follows:

1 th. Sprinkler Top Boxes......\$.25 each 5 th. Tin Cans containing Sprinkler Top Box......\$1.00 each

SANITARY STABLE FIXTURES



No. 115 Litter Carrier

NEW MODERN

LITTER AND FEED CARRIERS

Single and Double Trolleys

Crank or Chain Hoist

Strongest and easiest running Carrier ade. The most practical and up-to-date time and labor saver on the market. Carries the litter away from the stable and saves you three-fourths the expense. Pays for itself in a short time.

THE NEW MODERN WATERING SYSTEM



No. 410

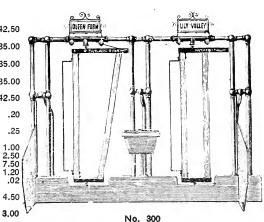
This Watering Basin with our system will furnish a cow with fresh water at any time. This means an increase of from 5 to 10 per cent in the flow of milk. The basins are cast iron thoroughly coated, round corners, smooth bottom. Inlet on the back side tapped for ¾-inch pipe. Covered with strainer, hinged so that the particles of chaff can be easily removed. Hardwood back board included with each basin. No. 1, price \$1.50; No. 2, price \$1.75.

Galvanized iron covers, practical and sanitary. Cattle soon learn to raise the covers themselves. The drop is automatic. Price 35c and 50c.

NEW MODERN SANITARY STEEL STALLS

Steel or Wood Stanchions, Chain or Pivot hung; Manger Partitions, Guard Rails, Name Plates, Feed Mangers, Hay Racks, Hog Troughs, Tanks, Box Stalls, Calf Pens, Piggeries, Square End Guards, Adjustable Steel Gates, Horse Stall Guards, Salt Bricks, Cork Floors and Ventilating Systems complete.





We Equip Stables Completely

All of our goods are made of the very best of material by workmen who take a pride in their work. With ordinary usage they will last a lifetime.

WRITE FOR DISCOUNTS

2.00

1.65

1.65

2,00

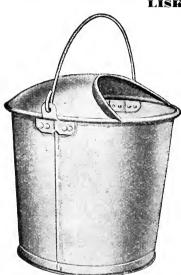
2.00

F. H. EBELING, SEEDS AND HARDWARE

MILKMEN AND DAIRY SUPPLIES.

Quart Mil	k Bottles	\$.70 per doz.	Wholesale Cans, all sizes	\$.40
" "	"	7.00 per gross	Strainer Pails "	.65 to .75
Pint "	66	.60 per doz.	Pint Dippers	.25 to .45
** **	64	5.50 per gross	Quart Dippers	.35 to .50
Half Pint	Milk Bottles	.50 per doz.	Strainers	.50 to 2.00
** **	** **	4.25 per gross	Tin Milk Pans, per doz	1.50 to 3.00
Milk Cans	50 quart	4.00	Tin Milk Pails, all sizes	.30 to .75
"	40 ''	3.00 " "	Sprinkling Pots, "	.25 to 1.25
cc	30 "	2.75 " "	Excelsior Strainers	2.50
** **	20 "	2.50 " "	"Our Own" Strainers -	2.00
Milk Caps		25 per 1000	Aerators	5.00 to 7.00
Carrying (Cans, all sizes	.50 to 2.25		0.00 10 1.00

LISK'S SANITARY PAIL



This Sanitary Pail combines nearly all of the good points that are contained in the many kinds put on the market in recent years, and is highly recommended by the Boards of Health and the State Milk Inspectors. A trial will convince. Price, \$1.75.

MILK FEVER OUTFIT. For Sterilized Air Treatment.

This treatment has cured 97 per cent. of all cases treated. This treatment is recommended by the Bureau of Animal Industry, United States Government, Department of

Agriculture.

The outfit consists of the instrument, a roll of tape, a package of carbolized cotton. Full directions, neatly packed. Price, \$3.00 net.

MILKING TUBES.



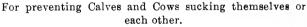
Full Directions with Each Tube. 35 cents to \$1.25 each.

SCALES.

Dairy Scales \$3.00

Platform Scales \$12.00

RICE'S CALF WEANER AND SUCKING COW MUZZLE.



No. 1—For Calves till 1 year old, 25c, by mail postpaid 35c No. 2—From 1 to 2 years old, 50c, by mail postpaid 56c

No. 3-For full grown animals and self suckers,

75c, by mail postpaid 85c

MILK BOTTLES.

1 quar	t, 70 d	ent	s per	doz.
1 pint	60	"	"	"
1-2 ''	50	"	**	"
Special	price	in	gross	lots.

MILK CAPS.

Per thousand, 25 cents.

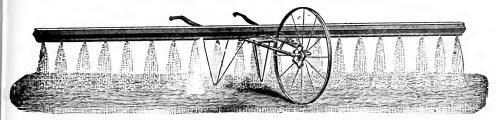
BARREL CHURNS.

0,—	4	gallon,	will churn,	2	gallons	\$8.50
		"	**	5	***	4.50
		"	"	8	**	5.00
		**	"	10	**	5.50
		**	60	12	64	7.00
		**	66	14	**	8.00
	1,— 2,— 3,— 4,—	1,— 10 2,— 15 3,— 20 4,— 25	1,— 10 " 2,— 15 " 3,— 20 " 4,— 25 "	1,— 10 " " " 2,— 15 " " " 3,— 20 " " 4,— 25 " "	1,— 10 " " 5 2,— 15 " " 8 3,— 20 " " 10 4,— 25 " " 12	1,— 10

Oak Dash Churns, Stone Dash Churns, Dog Powers, Butter Workers, Skimmers, Butter Carriers, Ladles, Richardson's Butter Color, Butter Prints, Floating Glass Thermometers, Dairy Thermometers, Cream Gauges, Babcock Butter Tester.



WHEELBARROW SEEDERS.



WITH WOOD OR IRON FRAME.

They can be worked by anyone who can run a wheelbarrow, Price, 14-foot, \$6.00; 16-foot, \$7.00.

THE LITTLE GIANT SEED SOWER.

This is the cheapest Crank Seeder on the market, and equal to the best for quality of work it does and durability. Don't pay \$5.00 for a seeder when you can get its equal for less money.

Will sow Wheat, Oats, Rice, Flax, Millet, Turnip Seed, Clover Seed, Grass Seed, Including Light grasses; in fact any kind of Seed broadcast. Also Plaster, Fertilizer, Salt, Ashes, etc.

They save one-third seed and two-thirds labor.

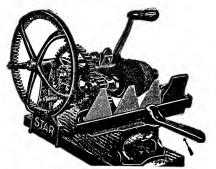
QRANK SEEDERS - - - \$2.00 FIDDLE SEEDERS - - - \$1.50

THE "REX" RIVETER.



THE BEST.

The cheapest, most durable and the most Practical Riveting Machine on the market. Price 50c and 85c.



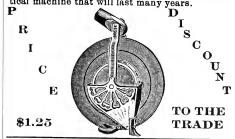
STAR SICKLE GRINDER, \$5.00



Eureka Kitchen Garden Seed Drill

It will sow and cover Beets, Cabbage, Carrots, Celery, Lettuce, Onions, Radishes, Spinach, Turnips, and all such seeds with the greatest regularity. Force Feed. It is only intended for small Gardens and Hot Houses.

Sows up close to the sides in straight rows. Sows the small packet of seed as well as a larger bulk. This Drill is not a toy, but a strong, practical machine that will last many years.





Imboden's Harrow on free trial, without money in advance. Return at our expense if it does not please you. Fixtures to use Harrow and Roller separate and to make a riding cultivator. Guaranteed combined to give 50 per cent, better and nicer seed hed in half the time. Field looks like a garden, no foot prints are left, Gan see check marks easier. Saves I team, and no heavier draft, A

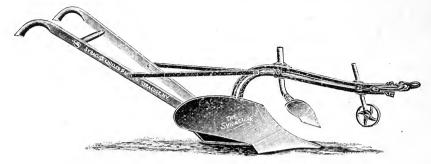
boy can do the work and ride. Operate teeth my assective that is easier. Saves I boy can do the work and ride. Operate teeth any depth, is ready in a second to move. Hundreds of them in use since 1900. Just ask for reports, description, price and terms.

Sold by F. H. EBELING.

Price \$38.00.

F. H. EBELING, SEEDS AND HARDWARE SYRACUSE CHILLED PLOWS.

These Plows are so well known that no word of introduction is necessary. We are pleased to offer their full line to our farmers at the usual prices.



SYRACUSE STEEL BEAM CHILLED PLOW.

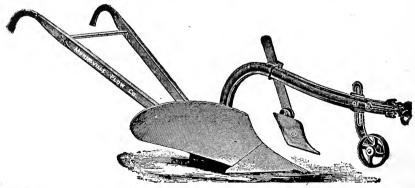
Made in three sizes, No. 401, No. 402 and No. 403.

Chilled Wearing Parts, Light, Strong, Durable.

		_	o-Horse, fu				•									
No.	402-N	fedium T	lwo-Horse,	furrow	5 t o	7 in	. dee	p, 11	to 14	in. w	ide,				14	50
No.	401—L	arge Tw	o-Horse, fu	irrow 5	to 8	in. d	eep,	1 2 to	15 in.	wid	θ,				18	00
No.	31	"	"	"	"		"								14	50
No.	32	•4	**	6 6			"								14	00
No.	61	"	"	"	"		"							•	14	00
No.	62-	**	**	46	**	•	"						•		14	00
No.	31-39	-Revers	ible Sulky,	3-horse	hite	h,									55	00

MUNNSVILLE PLOWS.

No. 10, STEEL BEAM PLOW-"The Big Seller."



This Plow is long on the run with a high Mouldboard, of a shape that insures easy draft goodcleaning qualities and pleasing appearance. Price \$14.50.

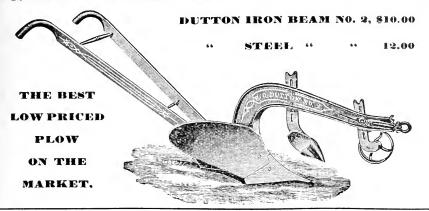
ONEIDA VALLEY CLIPPER No. 21.

 Δ light one horse cast steel plow, adapted to plowing out corn, hops and nurseries. Can be gauged so as to plow to and from the rows.

Price, \$11.50 Plain. No. 2 1-2 Chilled \$11.00.

THE MUNNSVILLE PLOW SULKY WITH RIDING ATTACHMENT With Plow Complete, \$28.00. Riding Attachment Only, \$15.00.

Dutton Steel and Chilled Plows



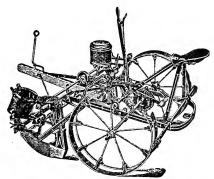
DITCHING PLOWS, PRICE \$10.00

Black Hawk Corn Planter

Two Row Planter

This planter is so simple that it is almost an impossibility for it to get "out of fix". It is the easiest machine to adjust you ever saw.

Did you ever notice that kernels of corn, while varying greatly in size, are just about uniform in thickness. This is the principle of the Black Hawk Corn Planter—the drop works on the "edge selection" principle. This drop principle is the most accurate of any yet conceived. The valve mechanism is entirely enclosed within the shank so it cannot be affected by corn stalks or other trash. No matter how fast you drive the team the corn is force. matter how fast you drive the team the corn is forced out of the heel in perfect check, and there can be no clegging. Whether for hilling or drilling it's always ready—no change of valves and no change of



plates for the distance you will use. The foot drop is always ready and its position is just where you would put it if you made a corn planter. While the front and back frames are extremely rigid, there is a spring connection between the two which allows the planter to follow unequal the surfaces of ground.

Complete, with Fertilizer Attachment Price \$55.00

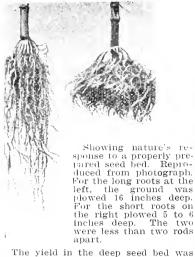
Bargains in Tools and Implements

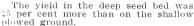
We offer at an especially low price the following list of tools and implementsevery one of which is a genuine bargain and can be seen at our warehouse. Some of these have been somewhat used.

- 1 Steel Roller.
- 1 Second-Hand Mower.
- 1 Two-Gang Sulky Plow.
- 1 Roller and Harrow Combined.
- 3 Peerless Tedders.
- 2 Eight-Fork Wood Tedders.
- 1 Spading Harrow.
- 1 Prout Hoe.
- 1 Cyclone Roller and Pulverizer.

- 2 Manure Spreaders.
- 1 Sterling Hay Loader.1 SterlingSide Delivery Rake.
- 1 Iron Age Riding Cultivator.
- 1 Syracuse Plow.
- 1 Roller-Harrow Combined.
- 1 Cutaway Harrow.
- 1 Iron Age Riding Cultivator.
- 1 Oliver Two-Gang Plow.

DEEP TILLING PLOW







Deep Tilling Plow

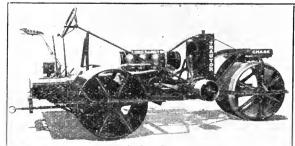
A REVOLUTION IN PLOWING

I call attention to a practical revolution in the method of turning over the soil.

I call attention to a practical revolution in the method of turning over the soil. This is something new in our part of the State and its merits will appeal to all practical farmers. The question of power is solved by using the Chase Farm Tractors described below.

The world has advanced in the method of plowing in a way that appeals to all practical farmers. Four horses are necessary, but the seed bed and its capacity for larger crops are practically doubled, as there is an unlimited soil depth. It is well known that this is the only way to larger crops. The effect of the tap roots getting down thoroughly into this naturally formed depth of soil prevents the results of either dry or wet weather. The fertilizer elements found deep down is greater than in shallow plowd ground. No "hardpan" to decrease the water holding capacity of the soil. Spaulding-Emerson Deep Tilling Plow is the only efficient method of pulverizing the soil to a special depth and of mixing the top and bottom soils and of renewing so-called worn-out soil. Corn stalks are buried under 12 to 16 inches of soil—so deep that neither drill nor harrow can reach them. This machine weighs 1200 pounds. Made entirely of steel, malleable iron and gray iron. Has two disks and makes only one furrow. Eight to sixteen inches in width and same in depth. It's not an experiment, but is backed up by our absolute guarantee. Price reduced from \$150 to \$100.00.

Put your farm production on an economical bas-You can't compete with the progressive farmer with your old - fashioned horse and hand power methods.



Replace eight to ten horses with a Chase Farm Tractor a. n d plow an acre an hour. Use your old horse-drawn tillage imple. ments.

HARD BUYERS ARE BUYING

CHASE FARM TRACTORS

Hard Buyers stand pat on having a tractor that will do all their farm work at less cost than horse and hand power. They get a thorough demonstration before they invest their money. Chase Farm Tractors are doing every kind of farm work for Hard Buyers—from plowing and harrowing to threshing and silo filling. They are even being operated by farm boys. The Chase Farm Tractor is built by men who have successfully built farm implements—successfully built the most popular motor truck in use.

They invite your theraugh investigation and will give Hard Buyers and the farm of the successfully built farm implements—

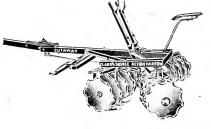
They invite your thorough investigation and will give Hard Buyers a satisfactory demon-

stration. For sale by F. H. EBELING, REPRESENTING THE CHASE MOTOR TRUCK COMPANY.

CLARK'S DOUBLE ACTION CUTAWAY HARROW



The CUTAWAY (CLARK) DOUBLE ACTION HARROW has rigid main frame which holds the disk gangs to their work, cutting every three inches, thoroughly cultivating the soil and killing out all foul growth. It has jointed pole and there is no weight on the



horses' necks. The tip pole can be removed in a minute's time, making a perfect tongueless harrow. No tongue truck is needed. It is made in sizes from one-horse up to engine size, and with extension head for orchard work.

The CUTAWAY (CLARK) GROVE HARROW is a very popular tool for market gardening and is very effective. The disk gangs can be easily reversed.

Remember that all Clark's Grass Tools are ready for you whenever the frost is out of the ground. This applies especially to our Double Action Cutaway Harrow and Clark's 26, Reversible Cutaway Sulky Disc Plow.

A-4 Cutaway	33.00
A-5 Cutaway	
A-6 Cutaway	
Reversible Sulky Disc Plow	
Bush and Bog Plow	55.00
Clark's Grove Harrow	22.00
Cultivator and Harrow	40.00

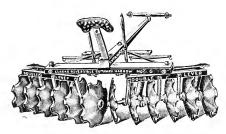


CLARK'S COMBINED CULTIVATOR AND HARROW

This machine is built to be used equally well as a harrow, a disk cultivator or as a listing cultivator. Do not confuse it with the regular A-4 Double Action Harrow—as it is altogether different. This machine has a perfect center draft at all times which is furnished by a special hitch. The machine is handled by two light horses.

When you use this machine as a harrow it cuts $4\frac{1}{2}$ feet wide; as a cultivator it will cultivate crops up to 20 inches high in rows $3\frac{1}{2}$ feet or more apart. The gangs may be set up to 17 inches apart. As a cultivator it may quickly and easily be adjusted to throw dirt toward the plants or to leave the dirt where it is.

This Double Action Cutaway is regularly fitted with jointed pole and two-horse hitch, has sixteen 16-inch disks. The two large disks for listing are extra. This machine weights, ready to ship, 438 pounds.



Price \$40.00.

All of CUTAWAY (CLARK'S) tools have hardwood journal boxes soaked in oil, special FORGED disks, and are fitted with hitch ready for use.

Ask for their catalog, "The Soil and Intensive Tillage," and booklet, "As Told by Others." They have a tool for your particular needs and you cannot afford to be without it.

The Keystone Adjustable Flat-Tooth Weeder

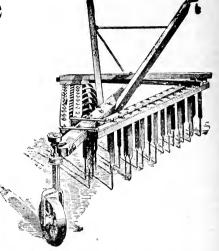
(The Keystone Adjustable Flat-Tooth Weeder narrowed to 30 inches.)

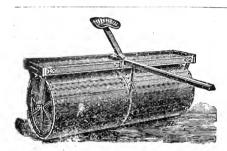
This is the most useful and practical Weeder of the many Weeders on the market. Every gardener and farmer should have one.

. Weight, 97 pounds

Price, . . . \$14.00

Can be expanded to 7 1-2 feet if desired.





LAND ROLLERS.

Oak Stave Roller, Two Sections

\$22,00

\$28.00

Steel Roller, 26 inch, Two Sections, with closed ends.

Lawn and Garden Roller

\$8.00 to \$12.00

These Rollers are made of the best material and made near home. All parts can be easily supplied.

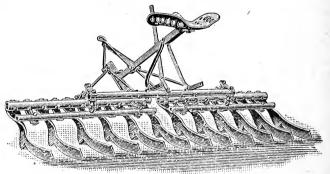
ACME PULVERIZING HARROW, CLOD CRUSHER AND LEVELER

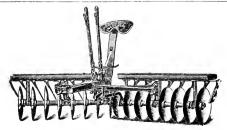
Lightest Riding Harrow sold anywhere. Low in price, light in draft, most easily handled. Made entirely of steel and iron and indestructable.

CUTS, CRUSHES, TURNS, SMOOTHS AND LEVELS, all in ONE OPERATION. 6 ft. 6 in. Two Horse Size.

You need one on your farm.

PRICE, \$16.00.



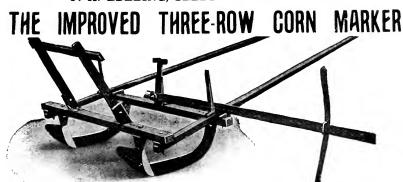


NEW YORK DISK HARROW

The Great Labor Saver.

Every Farmer Should Have One.

Price, = = \$20.00 to \$25.00



This cut shows our Steel Wing Marker. The runners are long, which enables it to make true and even mark. It is adjustable to mark any width row and any depth desired

Two-Row Marker for one horse, \$7.00. Three-Row Marker for two horses, \$8.50.

Bemis Transplanter

Sets all kinds of plants like cabbage, tobacco, etc. The success of plant setting is assured by its use. The most successful planter on the market. Made near by, and all parts supplied on a few hours' notice. **Price 865.00.**

FARMERS' COMBINATION CLAMP AND DRILL.



\$2.25 with Diamond Point Drills. \$3.00 with Syracuse Twist Drills. Extra Drills 10c each. Extra Drills 25c each. is kind on the market.

The lowest priced first class article of its kind on the market. Can be used as a wood clamp, also a bench vice, or hand drill.

The Prout Hoe

This very practical Tool deserves greater attention from our farmers on account of its great value as a furrower, a coverer and a hiller, all combined. This is so simple, handy, practical and such a labor-saver that every farmer should own one, but will do the work of three men and much better. Price \$15.00.

Orchard King Pruning Shear

A Knife that will interest anyone that does Tree Trimming

No other PRUNING SHEAR will take off a live limb that is 13-4 or 2 inches in diameter. Ours with its COMPOUND LEVERS, DOUBLE DRAW CUT, and ROLLER BEARING, will do it so easy that it will suprise you.

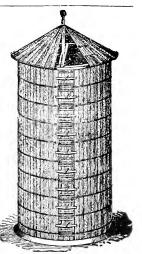


In doing work where ease makes speed, is not only saving time but conserving energy, a factor worth considering in all things at all times.

The material used is the finest that the market affords. The working parts are high carbon crucible steel, perfectly tempered.

This knife is guaranteed. Any part returned to us, charges prepaid and showing any defect will be replaced without cost.

PRICE \$3.00

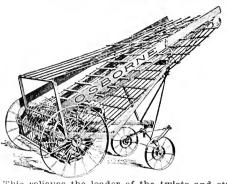


The Tonawanda

STANDARD SILO is the best and lowest priced.

Ask for catalogue

THE OSBORNE WINDROW HAY LOADER

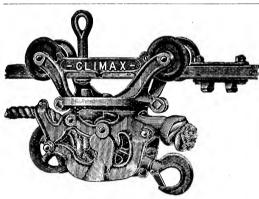


The Osborne is a remarkably simple loader—in fact, it would be difficult to imagine a core simple loader. The entire mechanism of this loader consists of a gathering drum, which picks up the hay, and and elevator carrier, the elevator carrier is operated by the gathering

drum.

The gathering drum is fastened to the main axle and is driven by both wheels. As a result of this construction, the gathering drum is raised and lowered with the wheels in passing over dead furrows and uneven ground. This insures all the hay being gathered irrespective of the condition of the ground. A wind break is provided, which prevents the hay from being blown from the carrier; the wind break is very effective and automatically

This relieves the loader of the twists and strains which would result were no fore carriage which wagon, as the hitch may be moved to any position. It permits the driver to disconnect to the loader from the wagon without requiring him to get down off the load. When the load is complete he simply pulls the rope which extends up to the top of the loader to be lifted when being connected to the wagon, as the hitch may be moved to any position. It permits the driver to disconnect the loader from the wagon without requiring him to get down off the load. When the load is complete he simply pulls the rope which extends up to the top of the load from the hook on the fore carriage. When disconnected from the wagon the loader is held in an upright position by the fore carriage. Loader can be used with any height of farm wagon without any readjusting or changes.



THE NEY

CLIMAX OPEN THROAT CARRIER.

With this carrier, it is possible to fill the mow closer to the comb of the roof than with any other carrier on the market. The throat has an exceptionally large opening, and the simple locking mechanism is so arranged that the lifting head or pulley locks directly on the sides or frame of the carrier, not depending on separate dogs or locks to hold the load. It is constructed and operated without the use of springs, and engages projections upon lifting pulley in a line with axis of pulley. This permits the pulley to swing very near the track and enables the carrier to work under conditions where any other carrier would necessarily

CARBORUNDUM SCYTHE STONES

Do away with the grinding of a scythe altogether. They produce a clean. sharp edge and do it faster and easier than it could be done on the best grindstone

Carborundum Scythe Stones must not be classed with the ordinary soythe stones that you have been accustomed to. The old style stones are merely sandstone and are of very little use. They simply RUB the edge into shape—Carborundum CUTS it—cuts it fast and clean and puts an edge on your scythe that will be a revelation to you. Price, 25c.

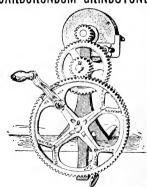
REVERSIBLE HAY CARRIERS.

For either Steel or Wood Track.

Light and Durable. Runs either way on the track without changing.

Price, \$4.50. Ney Hay Car, steel or wood track \$4 00 Climax Car, open throat 4 00 Double Harpoon Forks 1 25 Double Harpoon Alfalfa Fork . . 5 00 Hanger Hooks, doz. . . . 75 Brackets, doz. . 50 10 30 Horse Rake Teeth 25 Rope, best Manilla, at lowest prices.

CARBORUNDUM GRINDSTONES



This has taken the place of all Grinding Stones where quick results are desired. Prices based upon size.

MOWERS
GRAIN REAPERS
GRAIN BINDERS
CORN HARVESTERS
HORSE RAKES
HAY LOADERS
SIDE DELIVERY RAKES
HARROWS
GRAIN DRILLS
LIME SOWERS
FARM WAGONS
FARM WEARS
FARM TRUCKS

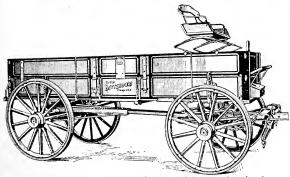
Farmers who use Osborne machines and implements say that all the good points on the Osborne cannot be discovered in a year—

BORNE

that the Osborne line is good enough to merit any man's confidence. Osborne quality will

be maintained at its usual high standard, and it behooves farmers who are in need of machines and implements to call on us when in town. We are always glad to have an opportunity to show the Osborne line

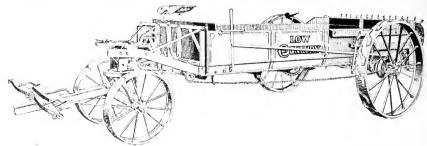
F. H. Ebeling sells the complete line of the Oater o Tools and Machinery, made at Auburn, only a few miles from Syracuse. Parts always in stock, which is a big item.



New Bettendorf Wagon equipped with wood wheels

Owing to the fact that timber suitable for use in the larger parts of wagon gears is getting especially scarce, many wagon builders are turning to steel construction. The New Bettendorf, a wagon having a steel gear, which has demonstrated its practicability, is offered. This wagon has been in use a number of years, and has been giving excellent satisfaction. Both the front and rear gear and bolsters are of steel construction. These wagons can be furnished with or without a box. Steel wheels can also be furnished for these wagons instead of wood wheels.

LOW 20TH CENTURY MANURE SPREADER



The Low 20th Century is a low down Spreader and has all the advantages that go with a spreader of low-down construction. However, the Low 20th Century has overcome the one great objection in low-down spreaders in that it has sufficient clearance space under the machine to allow it to be used advantageously any place from which and in which a load can be drawn. The driver absolutely gives no attention to the clearance feature. The Low 20th Century is high enough to pass over any obstruction that one would attempt to drive over under ordinary conditions.

The Low 20th Century is manufactured in four sizes. There is a size adapted to

the small truck farm, as well as one for our largest farms.

The Low 20th Century Spreader is strong because it is built of steel; the con-

trolling levers, and even the seat, are steel.

The only wood entering into the construction of the Low 20th Century is in the sides of the box, the apron slats, the tongue and beater rails. The Low 20th Century is built for service and durability; this is the reason for so much steel being put into it.

The Low 20th Century spreads evenly on the turns; it has a differential similar to that found in the hub of the Osborne Mower wheel, which allows one wheel to hold the pivot while making short turns without affecting the action of the beaters.

Syracuse, N. Y., October 17, 1913.

My Dear Mr. Ebeling: -The No. 2 Twentieth Century Low Down Spreader purchased of you is giving the University farm management great satisfaction. It is a positive pleasure to see it work. The draft is easy for such a machine and the distribution even and rapid. Very respectfully,

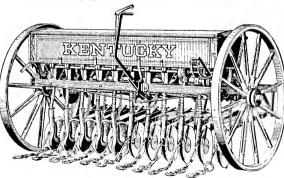
JAMES R. DAY.

Dictated.

Chancellor Syracuse University and Agricultural College.

KENTUCKY GRAIN DRILLS

Kentucky Drills deposit the seed uniformly and cover evenly so the field does not have thick and thin patches to cause unequal growth. This insures uniform results and a larger yield.



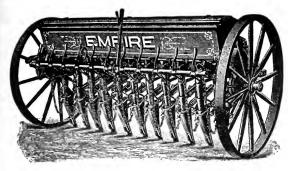
The Kentucky line is complete and comprises grain, fertilizer, and corn drills. When you buy a Kentucky Drill. you get one that has been built especially for your particular locality, a n d therefore is the drill best suited for your work.

Kentucky Fertilizer 11 x 7 Open Delivery Single Disk Drill, equipped with Internal Grain Feed and Star Fertilizer Feed
On the Kentucky Fertilizer Drill the quantity of fertilizer can be varied from 40

to 1,135 pounds to the acre. You can make this variation in feed without stopping the team. That is a drill feature worth having, but read on. Instead of depending upon the hopper for support, Kentucky drill grooves hold up the hopper. The Kentucky feed yoke is in one piece, therefore it is impossible for the pinions to get out of line. You know what that means.

Kentucky internal or Double Run grain feed cups sow all kinds of grain, as well as corn, large peas, Lima beans, red kidney beans, etc.; cup consists of but four parts,

held by one bolt, which may be tightened to take up wear.



Empire Drill

The oldest farmer who reads this reference book of time-savers and labor-savers, cannot remember when the Empire Drill was not looked upon as the most reliable. It has kept pace with modern life and as soon as a real practical improvement has been invented it has first been annexed to the Empire Drill. The Empire sows perfectly all kinds of grass seeds and grains and the fertilizer attachment from any viewpoint cannot be equalled by any other on the market.

Price for 9-Tube Drill, \$80.00.

Price for 11-Tube Drill, \$90.00.

FARMER'S

FAVORITE

COOKERS



		Size boiler.	Size Fire Box.	Price.
No. 2	30 gal	22x24x13	1-2.,24 Inches	\$11 00
No. 3	:10	".22x30x14	30 "	. 12 00
No. 4	50	" .22x36x15	36 ; "	. 13 00
No 5	15	" .22x48x17	48 "	. 15 00

The Farmers' Favorite is used for a great variety of purposes, such as cooking grain and vegetables for stock and poultry. Heating water for scalding hogs and poultry. Bolling spraying mixture. Heating water on wash lay. Heating water for washing dairy utendils. Rendering, lard, and tallow. Bolling sorghum.

Heating drinking water for stock. Syruping down. Boiling cider.] Preserving and evaporating fruit. Sugaring off. Boiling sap. In addition to the above, by using a top plate in place of the boiler it converts the cooker into a first-class stove for warming a milk room, hog house, poultry house, cellar or shop. Can you think of any other farm implement that can be used for so great a variety of purposes? The farm equipment is incomplete without one of these cookers.

Add \$3.50 for grate, for coal or coke

The Chatham Fanning Mill

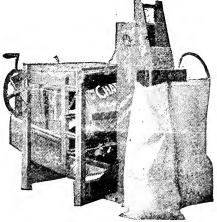
The secret of big crops is planting Pure, Healthy, Fat Seed!

The way to get such seed is to own this magic machine—the Chatham Mill. It's the greatest money-making farm machine on earth.

GRAIN GRADER, CLEANER AND SEPARATOR

Handles Wheat, Oats, Corn, Flax, Buck-wheat, Timothy Seed, Clover Seed—in fact, any grain or grass seed. Cleans, grades and separates all at one operation. Makes you independent—puts an end to planting foul, dirty seeds that grow poor crops and weeds. The "Chatham" handles 60 bushels per HOUR. Runs by hand or gas power.

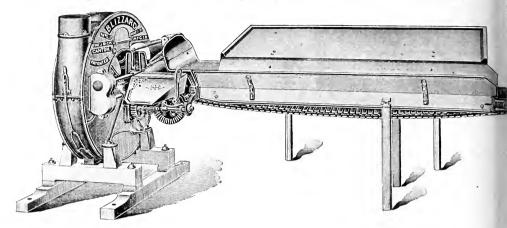
Over 250,000 "Chathams" are now used on farms—they are recommended by every Agricultural Authority in the country.



They make farming easier and a great deal more profitable. Price \$30.00.

With Bagging Attachment, \$35.00.

DICK'S NEW IMPROVED "BLIZZARD" CUTTER With Superior Self-Feed Table. Also with Plain Feed Table



The Blizzard is an entirely new departure in feed and ensilage cutting machinery, and we feel safe in stating that owing to the numerous points of merit in this combined machine for cutting, splitting or shredding feed, and elevating it by means of a pneumatic conveyor and deflector, the Blizzard excels all others of its class.

The gearing on this improved machine is 50 per cent stronger and has much more wearing surface, while the shafts for feed gears are larger in diameter; in fact all the parts throughout are made much heavier and stronger, and can stand more strain and extended service than the former style "Blizzard." These machines are now constructed with a third bearing for main shaft; the important feature of this improvement is that it supports the main shaft on the outside of belt pulley overcoming the strain of the drive belt, and by this device it cannot spring the main shaft, which remains absolutely in line with the remaining two bearings. The feed table can be detached before removing from the machine, by simply lowering the rear end of the table and lifting it out of its fastenings. We claim that the "New Improved Blizzard" is ahead of all ensilage and feed cutters on the market today.

No.	Length of Knives	Capacity per Hour Green Ensilage	Steam Power Required	Speed Revolutions	Traveling Table Price
L 9	11½ in.	4 to 6 tons	3½ to 5 H.P. 4 to 7 H.P.	900 to 1100 800 to 1050	
L 11 L 13	14 in. 16 in.	5 to 8 tons 7 to 12 tons	7 to 10 H.P.	650 to 1000	155.00
L 15	$18\frac{1}{2}$ in.	9 to 14 tons	8 to 12 H.P.	600 to 950	195.00

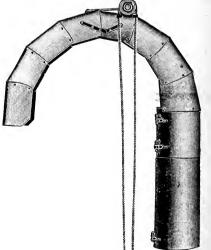
Wagon trucks complete for mounting and transporting above cutters, for Nos. 9 and 11, \$39.00; for Nos. 13 and 15, \$42.00.

Price of cutter does not include pipe, angle clamp joints or deflectors.

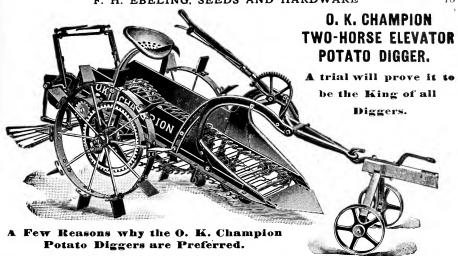
For No. L 9	
6-inch Galvaniezd Pipe, per foot\$.46	
6-inch Deflector for end of pipe 8.00	
For No. L 11	
7-inch Galvanized Pipe, per foot\$.50	
7-inch Deflector for end of pipe 8.00	
For No. L 13	
7½-inch Galvanized Pipe, per foot\$.52	1
$7\frac{1}{2}$ -inch Deflector for end of pipe 8.00	
For No. L 15	
8-inch Galvanized Pipe, per foot	
8-inch Deflector for end of pipe 8.00	

With Flexible Distributing Pipe for Inside Silo

A new sectional distributing pipe used in connection with regular improved Silage Distributer. At end of the Distributer on two adjustable iron rods is attached a Hopper which in turn supports the section al pipe. The device used for locking the pipe sections together is strong, durable, simple in construction, and what is of equal importance, makes the pipe very flexible. Price \$1.65.



Patent Deflector



BECAUSE They are strictly a Two-Horse Elevator Digger, two ordinary horses will do the work with ease.

BECAUSE It has an extra wide opening at the front, accomplished by using special constructed front throat side plates with inward extending lugs, to which the shovel blade is connected. The front throat side plates taper downward toward their front end, and are also flared outward at their upper edges, which edges are rolled backward to give a smooth, round suroutward at their upper edges, which edges are rolled backward to give a smooth, rolling surface; these flare outward at about midway between the throat and return to the vertical plane of the side plates. This will enable the ground to spread when entering the machine, thereby losing itself qu'ckly through the apron. This construction will also allow the weeds or vines to slide up through the machine without catching on the side.

BECAUSE The apron is of a special design, made of special High Carbon Spring Steel, having alternate high and low links, which gives them the power to break the ground more quickly than the stright partier.

than the straight pattern.

BECAUSE It is absolutely the simplest in construction, having less parts than any other Elevator Digger.

BECAUSE The machine is guaranteed to do what is claimed for it.

LAST BUT NOT LEAST It is sold for a price at which any farmer can afford to own his own machine. I have sold to our farmers in this vicinity about 350 Champion Diggers and can refer you to hundreds of satisfied users of this wonderful Digger. Price \$65.00 All broken parts free during the first season.

The No. 2 machine is constructed on exactly the same principles as the No. 1, which we have sold for many years, the only difference being that it is somewhat larger. The elevator is two inches wider and ten inches longer, other parts being built in proportion. The main beams of the No. 2 Digger are larger than those on the No. 1 machine and the main wheels are larger in order to accommodate the increased size. There is no other difference as the mechanism is exactly the same. Price, \$80.

K. Champion ıgger

We herewith present the new O. K. Champion No. 3 Digger with Extension Elevator. There has been some call for a larger capacity digger in irrigated and heavy soil sections, therefore we have built our No. 3 Model. A description of the Machine is as follows:

Width 22 inches between sides equipped with our patented wide front throat side plates, allowing the dirt when it enters the machine to spread to 26 inches, breaking the ground and making quick separation a that point. The elevator apron is made of 3.8 round extra high carbon spring steel with the links alternately raised and lowered to facilitate the carrying and breaking of the dirt rapidly as possible, reducing the load and thereby the draft. The crucible steel shovel blade is 15 inches long and ground to scour in any kind of soil. The relation of shovel and elevator apron is such that the dirt will slide up from the shovel to the elevator with the least resistance. The main wheels are 35 inches high, made of steel with cast hubs and fitted with removable lugs; the gear wheel fitted over the hub of main wheel is 18 1-2 inches in diameter and drives both the elevator apron as well as the extension conveyor. The extension is the same width and has the same kind of elevator link apron as 'he main machine and is 2 feet 8 inches long. This assists materially in cleaning any remaining dirt from the tubers and allows them to fall on the ground in a nice row behind the machine. The extension may be adjusted up or down by the extension brace running from the seat post to the cross brace on the same. It is amply strong for any soil or condition of field; its capacity is ample, having over 15 square feet of separating space; its simpleness is one of its main features because it relieves the possibility of wear and breakages and reduces the repair expenses to almost nothing. Its power requirements are where conditions of soil and field are normal, two horses will do the work without difficulty. In extraordinary heavy soil or field conditions four horses can be used without any danger of pulling it to pieces and the consequent wait for repairs Price, \$90.00.

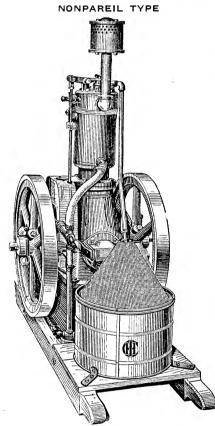
Osborne Gas and Gasoline Engines

TO OPERATE ON GAS, GASOLINE, NAPTHA or ALCOHOL

AIR COOLED 1-HORSE POWER, WATER COOLED 2, 3, 4 and 6-HORSE POWER

Use a Nonpareil engine to run your saw and save a lot of hard work.

You can use a Nonpareil engine for most of the hard-work jobs about the farm, such pumping water. running your cream separator, churn, feed grinder, corn sheller, grindstone. washing machine; or, you can use it for a small power house and repair shop-run a line shaft and have a lathe, drill press. emery wheel, forge and other machines.



It will run a hay press, small thresher, ensilage cutter, or a small irrigation plant.

The mixer on our Nonpareil engines will operate on gasoline or naphtha, but special mixers can be furnished for gas or alcohol on special order.

Make-and-break ignition is used, the current being furnished regularly by batteries. The governor is of the hit and miss type, and holds the speed very steady.

The speed-changing device enables the operator to vary the speed of the engine—about 20% while it is running.

The same high-grade construction embodied in all Osborne machines is found in Osborne engines.

A remarkably simple and efficient design has been attained in this engine.

The working parts are all conveniently located in full view on the governor side, so that this engine may be operated, cleaned, or oiled from one side. All parts are numbered and interchangeable, and can be easily removed. The crank case is enclosed and effectually protects the piston from dust and dirt, and forms an oil receptacle for lubricating the connecting rod by the splash system. An oil gauge on one side shows the oil-level in the base, and enables the operator to keep the oil at the proper depth.

The cylinder base and sub-base are cast separately. The base carries the cylinder and all the working parts. The sub-base furnishes a rigid support for the engine and on the skidded engine forms a receptacle for the gasoline tank and protects it from injury. On engines used for stationary work, it can be securely bolted to a solid foundation.

We have some of these engines in our show room ready to run. You know where we are; stop in and see them the next time you are in town.



DANA'S STOCK LABELS

For Cattle, Sheep, Hogs, Etc.

Cattle Labels, . . 75c dozen, \$4.00 per 100 Sheep and Hog Labels, 50c doz., \$2.50 per 100 Punches for Cattle, \$1.50 each Calves, 1.25 each

Sheep and Hogs, . 1.00 each Bull Nose Punch, 1.25 each

The above mailed you upon receipt of price named.



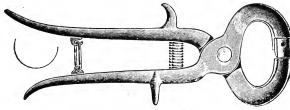
HAND AND POWER ROOT CUTTER.



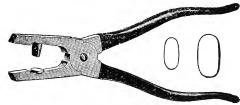
Has a capacity of 80 to 100 bushels per hour. One bushel per minute has been cut as a a test, many times.

It saves the price of a cow, as they cannot choke when fed on roots cut by this machine.

Price, \$9.00 to \$14.00.



Dana's Bull Nose Punch.

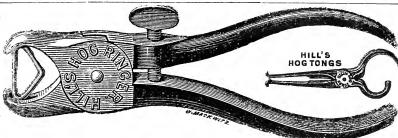


Dana's Cattle and Sheep Punch.

Hog Rings 10 Cents Per Box.

Hog Ringer 25 Cents

Hog Tongs 50 Cents



BLATCHFORD'S CALE MEAL.



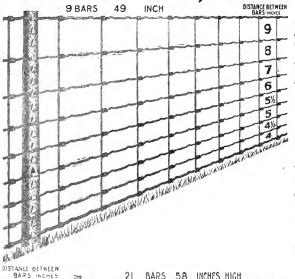
The perfect Milk Substitute for raising calves. One hundred pounds of it makes 100 gallops of Bich Nutritious Gruel. It is now a well recognized fact that one of the most successful aids to profitable farming is using a good Milk Subtsitute for raising calves. It is absolutely the only Milk Substitute that contains all the elements necessary for bodily growth in approximately the proper proportion. It pushes pigs, colts, etc., for ward better and quicker than any other food.

Average analysis of Blatchford's Calf Meal from a number of analyses taken at various times:

PROTEIN, 25 per cent. FAT, Prices: 100 pound bag, \$3.50. 50 pound bag, \$2.00. FAT, 5 per cent.

25 pound bag \$1.00,

SHEEP, HOG AND CATTLE FENCIN



BARS INCHES	31	21	BARS	58	INCHES	HIGH		
5		20	BARS	53	INCHES	HIGH		
5		19	BARS	48	INCHES	HIGH		
4/2		18	BARS	43	INCHES	HIGH		
4/2	Sec. Conf.							
4		16	BARS	35	INCHES	HIGH		
4								
31/2								
31/2		13	BARS	24	INCHĘS	HIGH		
3	3							
21/2		Property Space		gas Person			-	
21/2				Decision page			Trees and	-
2	2		-			-	-	-
2	Her Dan Burn	-			-	2	Daniel Secure	(pacethar
2			See North	-			(Lynn)	
	2-10-		-	-	-	-	-	Sun-
				Barrell Comment	-			
Washing			T	Jane La	THE THE	VIII	TUZL	111
		W.W.W	Mad 1	Man				AAA

This is a fence that fences and stays tenced. It stands for freedom from With this fence you can rest worry. easy and need fear no danger of your stock breaking out.

In this fencing we have every form of fences for sheep, hogs and cattle. It's made in two weights, medium

and heavy

Here's an especially interesting feature about this fencing-it's not only one of the best made but the cost is very small. The price was never so low as now. We have three cars in stock of the leading sizes. Ask or write for booklet.

The Lott Fence Stretcher is the only tool necessary for putting up he American Field and Hog Fencing. Every farmer should own this Stretcher It costs only \$5.

ANOTHER WONDERFUL FENCE.

There's no better fencing made for hogs. cattle, poultry or rabbits. It makes an ideal garden fencing. It's strong, thoroughly practical and more durable than netting. The light specifications are strong enough to turn

This fencing comes in 8 to 21 bars, either in 6 or 12 inch stays, 20 to 50 inches high, 25c. to 50c. per rod.

FENCING, POSTS and GATES

		RE:	TAIL	. PR	ICE	LIS	Т	
-		FENC.	ING				Per I	Rod
î	949	Style	D:	12-in	ch		\$.40
-	845	Style	D	l2-in	ch			.35
Ì	949	Style	A	6-in	ch			.35
-	845	Style	A	6-in	ch			.30
	949	Style	A:					.28
	845	Style	A:	l2-in	ch			.25
	832	Style	A	6-in	ch			.30
	2158	Style		6-in				.45
-	1558	Style		6-in				.45
-	1948	Style	F	6-in	ch			.40
-	635	Style		12-in				,22
-	OT	-						FC
-	21	EEL	. Fl	LIN	CŁ	P	US.	12
		RE.						
		E POS						30
	TIN	E POS	TTS'	7 for	t.		ψ	35
-	THIN	E E O 6	, 10,	1 166				

RETAIL PRICE LIST	
LINE POSTS, 6½ feet	.30
LINE POSTS, 7 feet	
CORNER POSTS, 8 feet	3.25
END POSTS, 8 feet	
14-ft. Gate	
3-ft. Single Walk Gate	
4-ft. Single Walk Gate	

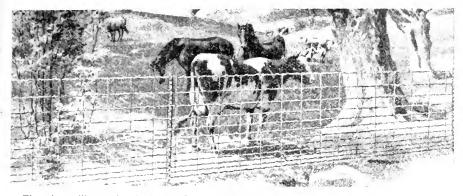
COMBINATION TOOL

Here's the handiest tool a farmer ever can own. Stop and think. It drives, pulls, makes and saves staples. It's a wrench and pincer, nail puller and hammer It cuts, splices straightens and tightens wire. It re moves trellises.

"Saves time and wages; saves cutting hand; saves your temper, and it saves 7--SEVEN TOOLS IN ONE--7 Price \$1.00

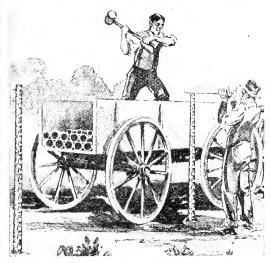
NEEDED BY 6,000,000 FARMERS. It takes the Place of Button Pliers.

chasing cattle. You need one. Write now. It's only \$1.



The above illustration indicates design 1258 of American Steel Fencing, which is eminently satisfactory for general farm purposes. The close spacing at the bottom will turn Hogs, also hold Sheep, Cattle and Horses.

We carry a full line of everything in the way of STEEL FENCING for Horses, Stock, Sheep, Hogs and Poultry. Price very reasonable.



FENCING, POSTS AND

PRICE LIST

FENCII		F	er l	Rod
949—Style	D-12-inch		\$.40
845—Style	D-12-inch			.35
949—Style	A 6-inch			.35
845—Style	A 6-inch			.30
949—Style	A—12-inch			.28
845—Style	A-12-inch			.25
832—Style	A- 6-inch			.30
2158—Style	F- 6-inch			.45
1558—Style	E- 6-inch			.45
1948—Style	F 6-inch			.40
635—Style	A-12-inch			.22

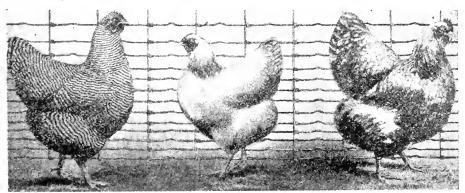
STEEL FENCE POSTS

RETAIL PRICE LIST

LINE POSTS, 6½ ft		 . 9	.30
LINE POSTS, 7 ft			
CORNER POSTS, 8 ft			3.25
END POSTS, 8 ft			
14-ft. Gate			
3-ft. Single Walk Gate			
4-ft. Single Walk Gate			4.00

There's no better fencing made for hogs, cattle, poultry or rabbits. It makes an ideal garden fencing. It's strong, thoroughly practical and more durable than netting. The light specifications are strong enough to turn stock.

This fencing comes in 8 to 15 bars, either in 6 or 12 inch stays, 20 to 50 inches high, 25c. to 45c. per rod.

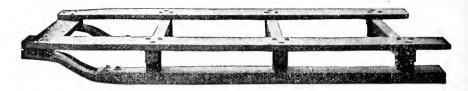


MERIDIAN HAY RACK.

Manufactured of selected lumber and well bolted. Price, 16-foot, \$13.00. 14-foot, \$12.00.



OUR IMPROVED SLIP.



The above cut represents our Improved Slip, which any farmer can make by using our castings, which are shown in the front part of the cut. These castings are all finished and ready for the \$x6\$ inch maple runners. Since it is impossible to get Slip Runners sawed with the right sweep, any farmer will appreciate the benefit of our castings at a glance.

All complete like above cut, \$8.50. Set of Shoes for above, \$2.75.

IRON HOG TROUGHS.



Made in four sizes 8 4. 5. and 6 feet, 8 inches deep, 12 inches wide. Price 50 cents per foot.



IRON STONE BOAT HEAD.

A Simple, Complete and Inexpensive device whereby a Stone Boat can be made in a few minutes by using straight plank. One head will last for years.

Price \$3.00 Each

GARDEN

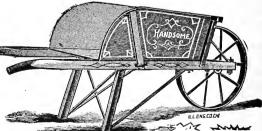
BARROWS.

\$3.00

to

\$5.00.





STEEL TRAY BARROW

The framework of this barrow is bolted together and is fitted with a steel tray and patent wood wheel with iron hub, specially adapted for stable work. Deep Steel Tray, No. 1, \$4.50. We also offer The Common Wood or Paddy Barrow, with iron or wood wheels, \$1.75 and \$2.00

FARMER'S SANITARY CHEMICAL CLOSET.

Many farmers take better care of their stock than of their families. The old-fashioned outdoor closet is the only thing that links the majority of present day farmers with the log house life of their grandfathers. The live stock is housed in a



palace, yet many farmers and their families keep the same unsightly, unwholesome, vileodored outhouse. In winter it's a place to be dreaded and it causes irregular habits which result in a train of ills. Wells half a mile away may be polluted. It's your duty to banish that unsightly outdoor closet in your back yard and install

The "Good Health" System of Modern Sanitation

The Farmer's Sanitary Chemical Closet can be set up in any convenient place anywhere in the house and connected with chimney or any run or stovepipe where a good draft is assured. It takes up about the same space as the ordinary flush water closet. It is oval in shape—no corners. The seat is of birch or maple with closely fitting cover with rubber cushion. Nickel plated or oxidized trimmings, splendidly finished, strong and well built. Will last for years. Just back of the lid an opening is provided to which the draft pipe is attached. Chemicals used destroy the typhoid bacillus inside of five minutes.

About one pint of chemical and eight pints of water put into the tank and the closet is ready for use. No burning, no water system,

no sewerage, yet as perfect as any city closet. It's entirely odorless when in use. When the tank is about two-thirds full it is emptied and recharged as before. All germ life is destroyed.

Worth Many Times Its Cost Every Month in the Year

Why give your family other comforts and overlook this? Can the cost of ill health be estimated?

Closet complete for farm house, school, hotel, summer cottage, tent, etc. Price only \$20.00.

HOME MIXING OF FERTILIZERS Is the Most Practical, Efficient and Economical Method of Getting the Best Results

It means a saving of \$6.00 or more a ton.

The sources of Plant Food are the best and most available

No inferior sources of ammonia are used.

You are paying for no useless filler and the freight, bagging, handling and cost of distributing it.

It means better results. You can adapt your formula to suit your particular soil and crop.

Experiments prove superiority of Home Mixtures over factory mixed goods.

Every Experiment Station, Department of Agriculture, Institute Lecturer, Farmers' Grange, and Agricultural College, advocates the purchase of materials and home mixing of fertilizers.

Every fertilizer manufacturer opposes the Home Mixing of fertilizer because when

the practice becomes general it will mean the destruction of his business.

We instruct you how to mix your goods and the number of pounds of each material to make goods of any analysis.

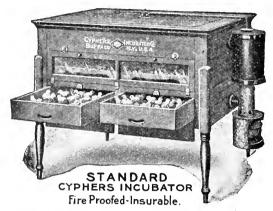
Write for prices, formula tables and booklets telling How and Why.

We offer materials for Home Mixing. Ask for prices.

WE ARE AUTHORIZED AGENTS FOR

GENUINE STANDARD CYPHERS INCUBATORS PATENTED

(Look for Trade Mark-Demand the Label.)



Practical poultry raisers who mean business and desire the greatest possible success should look for and DE-MAND the qualities that have made Cyphers Incubators WORLD FAMOUS.

Fire-Proofed
Insurable
Self-Ventilating
Self-Regulating
Non-Moisture
Efficient, Durable and
Positively Guaranteed.

FOR 1914 We offer our customers the Cyphers Company's complete line of Incubators and Brooders—the best on the market. For years the Cyphers Incubator has been consistently improved, always maintaining its leadership until to-day it represents all that is most efficient, convenient and reliable in incubator instruction.

To own a Cyphers is to have an incubator that stands first, not only because it has affixed to it the fire insurance label granted by the National Board of Fire Underwriters and bears a world-wide reputation, but because of the well established fact that it is the best hatcher of large, vigorous, livable chicks. It is positively guaranteed to outhatch any other make of incubator under widely varying conditions, season after season, and to last ten years without repairs.

Form of Brass Label to be found (in serial numbers) on every Standard Cyphers Incubator. All sizes,



DEMAND THIS LABEL.

YOUR SAFETY.

The Principles of Construction that have made Cyphers Incubators "the world's standard hatchers" for the last twelve to sixteen years remain unchanged in the 1914 pattern Their patented features, their entire freedom from the bothers, disappointments and losses common to the "cheap" or "bargain" incubator, make these high-class machines the best for you to own first, last and all the time. They are used with unequalled success in all parts of the civilized world, under every practical condition by men and women in all walks of life.

Cyphers Incubators have now been on the market seventeen years and to day are used by more Government Experiment Stations, on more large, practical poultry plants, on more successful duck and egg farms and by more foremost poultry breeders than all other makes combined.

Every Standard Cyphers Incubator is Guaranteed by the manufacturers to do first-class work in the hands of every purchaser who will give it a fair trial, and we hereby place our guarantee back of theirs. In buying a Cyphers you take no chances. Persons who earnestly desire to succeed in the poultry business should have the right tools with which to work. Write us to day for free illustrated catalogue telling all about these superior hatching machines.

SIZES AND PRICES OF CYPHERS INCUBATORS.

NOTICE.—The above prices are factory prices. In buying of us you save on freight and also save valuable time. Goods are carried in stock by us the year around.

HATCHING BY ELECTRICITY.

We are agent; for Cyphers Electric Hatching and Brooding Equipment. Prices—No. 1 Electrobator, holds 60 hen eggs, \$17 50; No. 2 Electrobator, holds 120 hen eggs, \$22.00; No. 0 Electroplane, for use in No. 0 Cyphers Incubator, \$8,00; No. 1 Electroplane, for use in No. 1 Cyphers Incubator \$10.00: No. 2 Electroplanes, for use in No. 2 Cyphers Incubator, \$10.00; Electroplanes, for use in No. 2 Cyphers Incubator, per pair \$18.00; Electroplanes, for use in No. 2 Cyphers Incubator, per pair \$18.00; Electroplanes, \$15.00.

STANDARD CYPHERS COMBINATION BROODERS AND COLONY ROOSTING COOPS.

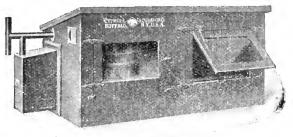
FOR 1914 Cyphers Unequalled Apartment Brooders and combina-

tion roosting coops have the same important advantages over all other makes that are possessed by Cyphers Company's 1913 incubators, in that they are fire-proofed and insurable, having the first fire insur-ance inspection label ever granted

on a brooder.

Cyphers 1914 Brooders, every size and style, are self-regulating self-ventilating and varmint proof. The outdoor styles are useable also as colony coops for the growing chicks. They are easily and quickly converted into colony roosting coops by simply taking out the hover, which is made removable for that purpose.

FIRE-PROOFED. INSURABLE, SELF-REGULATING.



STYLE BOUTDOOR BROODER.

(Three apartments. Safest and most popular "Foster Mother" ever designed.)

This double use of the Cyphers Brooder means

a considerable saving of money. It makes a safe and comfortable enclosure for the young chicks at night

and saves the buying of a coop for them. These out-

door brooders, on account of their fire-proof construction, can be used indoors, although we supply a special brooder, Style D, for indoor purposes. All Cyphers

1914 Brooders, both outdoor and indoor, contain either two or three apartments. The popular Style B (shown

in illustration herewith), contains three apartments-

first, roomy space under the hover; second, hover chamber; third, well-lighted exercising apartment.

INDERWRITERS LABORATORIES, INC. INSPECTED BROODER al 16 1 JR

DEMAND THIS LABEL YOUR SAFETY

Form of Brass Label to be found (in serial number) on every Cyphers Brooder. All sizes.

It has often been said of Standard Cyphers Incubators that

THEY MOTHER THE CHICKS BETTER THAN A HEN.

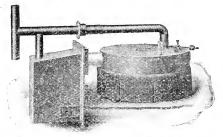
An Important Reason for this is found in the great practical advantage possessed by the entire line of Cyphers Brooders for 1914 in their self-regulating feature. For years the self-regulator was attached only to the highest priced Cyphers Brooder (Style C), but it was so well received that now it is attached to all Cyphers Company

brooders. It automatically regulates the heat in the brooder underneath the hover at all times, whereas in brooders without a regulator the heat has to be governed by a continuous watching of the lamp and turning the wick up or down whenever

more or less heat is required.

In addition to this unequaled line of brooders, we offer separately the Cyphers Company's world's challenge Adaptable Hover. This machinery-made, all metal, guaranteed fire proof heating and brooding device is suitable to be used anywhere that heat is required for brooding chicks or ducklings. It can be used in a roosting coop, colony house, shed, hen house, barn or other building with or without any additional enclosure for the chicks, or in a large goods case or organ or piano box.

Is pronounced by thousands of users to be the best device thus far invented for heating homemade brooders. Recommended especially for use



ALL METAL ADAPTABLE HOVER.

(Self-Regulating and Bears Insurance Label as Separate Device.)

in long brooding houses, one hover for each pen.

Adaptable hover is complete in itself, bears insurance label as a separate device, and is safe to use anywhere. Weight, boxed for shipment, only 40 pounds.

Sizes and Prices of Cyphers Adaptable Hover and Brooders. Free on Board Cars Syracuse N. Y.

Tioo on Bound Curb, Sylacusc, 1	1.	•			
Adaptable Hover, capacity 75 chicks,					\$ 8.50
Style A, Two Apartment Outdoor brooder, capacity 75 chicks,					13.50
Style B, Three Apartment Outdoor Brooder, capacity 100 chicks,					17.50
Style C, Three Apartment Outdoor Brooder, capacity 100 chicks,					19.00
Style D, Two Apartment Indoor Brooder, capacity 75 chicks,					13.00

CYCLE HATCHERS, BROODER--HATCHERS AND



PHILO SYSTEM GALVANIZED IRON FIRELESS BROODERS



Prices of Brooder Hatchers.

1	${\bf Brooder}$	Hatcher,	with	thermometer,	\$8	c 0
2	Brooder	Hatchers	, "	66	15	7 5
4	Brooder	Hatchers	, "	44	29	25

Prices of Cycle Hatchers.

1 Cycle Hatcher, v	vith	thermometer,	\$ 6	50	
2 Cycle Hatchers,	"	"	12	25	
4 Cycle Hatchers,	61	**	23	25	

Prices of Galvanized Iron Philo Lampless Brooders.

1 (Jalvanized	Iron	Brooder,	large	size,	\$ 2	75
2	* 6	6.6	"	"	4.6	5	15
1	**	"	6.6	"	44	10	00
l	"	**	66	media	am size,	2	25
2	46	66	64	66	66	4	15
i		**	44	"	"	8	00
Ī	"	٠.	66	small	size.	- 1	75
ì	"	66	44	64	"	3	15
į	66	6.6	6.	**	4.6	6	00
	Set three	Galv	anized I	on B	rooders.		
•	one of ea						50



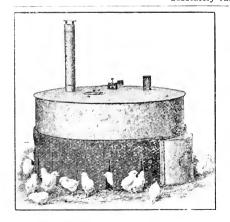
BOSTON DRY FOOD HOPPER

The Food-Saving, Rat-Proof Hopper That Made Dry-Feeding of Poultry a Success

The use of these hoppers will positively save their original cost every week in the case of adult fowls and every month or less in the case of chicks. Besides this they will help greatly to keep your fowls and chicks in a healthy condition by insuring them clean food entirely free from filth of any kind. Every poultryman will appreciate this feature.

Prices: Large Hopper for Dry Feed, holds 1-2 bu., each \$1.00 Small Hopper for Beef Scrap, Grit, etc., holds 1 pk, .80 Long Clicken size, holds 1 peck, 1.25 Short Chicken size, holds 1-2 peck,90

Hopper is locked for the night by a hook in lower end, making it absolutely rat-proof



Shows the Cyphers Company Portable Hover $^{\rm i}{\rm n}$ Use on Floor of Poultry House. Chicks at all times are on a level with surrounding floor.

CYPHERS PORTABLE HOVER

Self Regulating: : For Indoor Use

The self-regulating and self-ventilating Portable Hover, illustrated herewith, was invented by Cyphers Incubator Company in 1910, and has been well tested during three seasons of practical use on the Cyphers Company Poultry Farm. It is the only Self-Ventilating portable brooding hover thus far invented and we quaranteed it to be the best device on the market.

As its name indicates, the Cyphers Portable Hover can be picked up at any time—hover, lamp-box, lamp, regulating device, all complete—and moved to a new spot or any place the operator may desire and the device will continue in operation right along. The lamp ned not be removed at this time nor the wick so much as turned down. Is very convenient for cleaning and for moving the chicks from one location to another.

This Hover has a rated capacity of seventy-five newly hatched chicks, or of fifty chicks that are

CYPHERS ROUP REMEDI

Prices of Cyphers Roup Cure Small-size package, each...\$.25 Medium-size package, each....50 Large-size package, each....1.00



CYPHERS ROUP CURE

The best remedy for roup in all forms. Thoroughly reliable and always uniform in quality and strength. Used by simply dissolving in drinking water. One small size package will make 25 gallons of medicine. Guaranteed to cure in every case except last and incurable stage of the disease. Complete cure guaranteed or money refunded.

CYPHERS LICE PAINT

A strong, effective, liquid lice destroyer. It does the work and does it economically. Not diluted with cheap adulterations. Also useful for killing common forms of lice, mites and ticks that prey upon horses, cattle, sheep and hogs.

Price of Cyphers Lice Paint

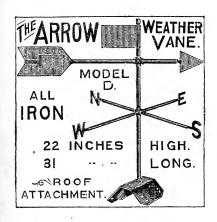
1-qt. cans. each	\$.35
½-gal. cans, each		
1-gal. cans, each	•	1.00
5-gal. wood jacketed		
cans, each	-	4.00

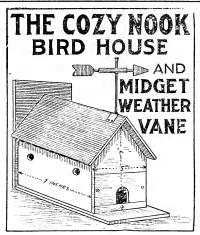


CYPHERS LICE POWDER

Warranted to be a lice-killer, not a lice-driver. The strongest safe preparation on the market. Contains no carbolic acid or chemicals to injure plumage or injure fertility of eggs. Is easy to apply and sure in effect. A trial package will convince you of

Prices of Cyphers Lice Powder								
5-0Z.	package trial	size),	each\$.10	48-oz.	box,	each	.50
15-oz	. box, each			.25	100-oz	. bag	. each	1.00





WEATHER VANE

We offer the model "D" Weather Vane with Roof Attachment, (packed in mailing box), 22 inches long, 6 inches wide, 3 inches deep, and if desired can be mailed by Parcels Post. Price, \$4.00 complete.

This can be easily and firmly fastened to almost any gable or peak roof, as the attachment is flexible, and may be flattened to match roof conditions.

COZY NOOK BIRD HOUSE

We offer the COZY NOOK BIRD HOUSE as here shown, in white with green roof, front opening $1\frac{1}{4}x1\frac{1}{4}$ inch, weight $2\frac{1}{2}$ lbs. Price \$1.25.

A Midget Weather Vane for this Bird House can be furnished painted in red and aluminum, 25c extra.

Every Farm-House should have one of these BIRD HOUSES for the protection and encouragement of Bird Life so they may be able to assist the farmer in exterminating the millions of destructive insects preying upon his crop. This investment will bring big returns.



ANIMAL AND POULTRY REGULATORS AND REMEDIES

Satisfaction Guaranteed or Money Refunded

Pratts Poultry Regulator



This is the original Poultry Regulator of America, in use by the raisers everywhere.

is a guaranteed egg producer, and when regularly used, hens lay throughout the year. lav

It is a perfect digestive and tonic and will prevent chicken cholera, gapes, roup, rheumatism, expel worms, prevent leg weakness, egg eating. It also greatly improves turkeys, geese, ducks, pigeons and guineas—insuring quick, healthy growth.

\$9.00: 25-Tb. 100-lb. bags. pails at \$2.50: 50c. pkgs., weight 4 lbs.; \$1.00 pkgs., weight 9 lbs.

Pratts Poultry Disinfectant and Lice Killer



If poultry keepers would regularly spray the chicken houses, roosts, dropping boards and utensils with Pratts Poultry Disinfectant, most all their troubles would vanish. This great Disinfectant is a real wonder worker in the poultry yard. Put up in 1-quart 35c. and 1-gallon cans, \$1.00.

Pratts Roup Remedy

PILLS OR POWDER



Is a scientific preparation GUARANTEED to prevent and cure roup, colds, canker, catarrh and diphtheria.

In severe cases individual treatment with the PILLS is the only sure method. For mild cases and as a preventive, crush the pills or use the powdered form, and mix in the drinking water. Sold in 25c., 50c. and \$1.00 boxes.

Pratts Baby Chick Food

This is one of the greatest Money Savers and greatest Chick Sav-Savers ers ever placed on the market. Every man, woman or child who raises little chicks, turraises little chicks, turkeys, ducks and geese should try at least one package of Pratts Baby Chick Food. It is a scientific food ration to be fed for the first three weeks. If you want real success with your batches if you want to



weeks. If you want real success with your hatches, if you want to save all the baby chicks, if you want them to grow fast—get Pratts Baby Chick Food on our recommendation for your first trial, after that you will never be without it.

Put up in 1-lb., 3-lb., 6½-lb. pkgs., also 14-lb., 25-lb., 50-lb. and 100-lb. bags.

Pratts Lice Killer

(POWDERED FORM)

It quickly and thoroughly kills all lice on little chicks, big chicks, setting hens, and incubator chicks. It rids horses, cattle, hogs, dogs and cats of lice, and destroys ticks on sheep. It destroys insects and bugs on vines, plants and flowers. A valuable deodorizer and disinfectant, for all poultry houses, barns, stables, and dwellings. Drives out moths from closets, furniture, carpets and clothing. 25c. and 50c.



Pratts White Diarrhoea

Remedy

positively This remedy will positively save many dollars' worth of little chicks to poultry raisers. It has taken us nearly three years to find a remedy for White Diarrhoea and we are so sure that we have it in this article that we authorize our dealers throughout the world to refund the nurchase price in case it remedy will This the purchase price in case it fails. Extra large box, 50c.; small size, 25c.



A Guaranteed Remedy for Practically Every Poultry Ailment

MANN'S CELEBRATED BONE CUTTERS



We offer the best Bone Mill on the market. Fully warranted against breakage for two years. The only machine that will cut green bone fine enough for Bantams and little chickens.

Price List of Mann's Green Bone Cutters

No.	5 C	with	Crank Hand	lle \$ 6.00
No.	5 B	6.6	Balance Whe	el 8.00
No.	5 B M	["	" & iron sta	nd 10.50
No.	7	4.4	"	12.00
No.	71-2	Hand	and Power	16.00
No.	9	with 1	Power	18.40
No	11	Power	Machino	96.00

PHILADELPHIA POULTRY MARKER





ADJUSTABLE ALUMINUM LEG BANDS

® A 9663

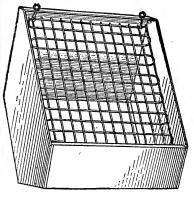








"THE BOSTON" POULTRY DRY FEED HOPPER Holds 1.2 Bushel. Price, \$1.00 and \$2.50.





MASCOT HAND CARTS Handy No. 1

Box, $20 \times 40 \times 8$ inches—three wheels. Capacity, 250 lbs. Shipping Weight, 75 lbs.

With 26-in. side wheels, 3-16 in. spokes. For light delivery it can't be beat. A handy all around cart, useful for a hundred purposes and will pay for itself in a short time. Every farmer should have one. Price, \$10.00.

POULTRY SUPPLIES

CYPHERS INCUBATOR. No. 0, 70-egg \$15.00 " 1, 144-egg, . 22.00	COOP, New Model Brood, 8.50 CHARCOAL, Nodi, 2 lb. carton,
" 2, 244-egg, . 32.00	" 50 " sack, 1.00
" " 3, 390-egg, . 38.00 OYPHERS BROODERS	CORN SHELLERS (Iron King), each, 1.00 CANDLE, Sulphur Fumigating, each
Cyphers Adaptable Hover, 75 chicks \$8.50	CANDLE, Sulphur Fumigating, each,
Style A, Outdoor Brooder 75 " 13.50	CUTTERS
" B, " " 100 " 17.50	(See opposite page)
"C, "100 "19.00" 19.00" 13.00	Banner Root, No. 7, 5.00
Metal Parts for Style A Brooder 6.00	Fancier's Root, 1.00 Root, Pulley and Crank, No. 26, 12.00
" " Colony without Regulator, 6.00	" (Crank only), 9.00
Stoves (Cyphers Safety), 1.75	EGG BOXES (Paper), 12 egg, per doz.,10
" (Cyphers Improved), 1.75	HUMPTY DUMPTY EGG-CASES—
" (1907 Pattern), 1.50 Per lb. Per 100	6 doz. size, 30c; 12 doz. size35
BEEF SCRAPS, 3 c 2.75	EGG, Porcelain Nest, per doz.,
CRUSHED SHELL, 1c 1,00	EGGS, Medicated, per doz.,
BONE MEAL, Raw, 3c 2.75	" Preservative, 1 gal. jugs, each, 1.00
ALFALFA, Mealed, 3c 2.00	FOOD Cyphers Chick, per lb., 3c.; per 100 " 250
ANIMAL MEAL, per 100 lbs 2.50 " 1.50	" 50 " 1.50
" " " 2 5 " .75	" Forcing, " " 3e. " 100 " 2.25 " Scratching, " " 2½e " 50 " 1.25
" " " 10 " .35	" " 2½e " 100 " 2.25
BANDS, Double Clinch 15c	" Developing, " " 3c. " 50 " 1.15
" Adjustable, 15c	" Laying, " " 8e. " 50 " 1.25
" Pigeon Leg, 15c	" 100 " 2.25
Mann's, No. 5 C., with Crank Handle, . 6.00	DRY MASH or CHICKEN CHOWDER— 3e lb; per 100 2.50
" No. 5 B., with Balance Wheel, . 8.00	FOOD HOPPERS (see Hoppers.)
" No. 5 B. M., with Iron Stand	FOUNTAINS
and Balance Wheel, 10.59 Mann's, No. 7, Balance Wheel, 12.00	Wall, 1 gallon, each,
" No. 7 1-2, Semi-Power, 16.00	Drinking, Galv. Iron, small, each
" No. 9, with Balance Wheel and Iron Stand 18.50	Drinking, Galv. Iron, small, each,
Mann's, No. 11, Power Machine 26.00	" " large, each,
" No. 12, " " 30.00	" " special duck,
OLOVER CUTTER, without stand, 8.50 with stand, 18.50	FOOD OR WATER CUPS (see Cups.)
BOXES FOR GRIT AND SHELL, each	FENCING, REGULAR POULTRY, 2 inch mesh.
BOWKER'S ANIMAL MEAL, 10 lb. bags, .80	2-inch mesh. 12-inch. 2-inch mess 48 inch
" " 25 " · .63	9 . " 94 " 9 " " 79 "
" " 50 ° ° 1.25	0 " " 96 "
BONE AND SHELL MILL (see Mill)	In full rolls 1-2c, per square foot.
BOOKS-POULTRY	Less than full rolls 8-4c, per square foot.
999 Questions and Answers, latest and	Each roll contains 150 lineal feet.
best book on Poultry Raising, 1.00 Reliable Poultry Remedies, How to	2 21:021:0; 1:10
Prevent and Cure Diseases (84 pages), .25	1 inch mesh 12 inch 1 inch mesh 48 inch 1 " " 60 "
Ducks and Geese. How to Succeed with Water Fowls (68 pages),	1 " " 24 " 1 " " 72 "
with Water Fowls (68 pages),	1 " " 50
ably (84 pages), ,	
500 Questiens and Answers in Poultry Raising,	Less than full rolls, 11-2 cent per sq. ft.
CAPONIZING INSTRUMENTS (postpaid) 2.75	AMERICAN POULTRY FENCE
" 4.00	A fence, not a netting
OEMENT (Tar Paint for Roofs), per gal-	2158 , per rod 45c.
lon, \$0.50; three gallons, 1.25	1558 , per rod .406

POULTRY SUPPLIESContinued. 89				
GRIT, Crystal Granite, in three sizes,	ROOFING, Flintkote, 1-2 ply, per square,. 1.75			
Per lb.,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
GRIT, Foust Health, per lb., 3c.; "100, 2.00 GUN, Jumbo Powder, each,	" " 3 " " " . 4.00			
GRAINS, Corn Cracked, per bushel	Each roll contains one or two squares. ROOFING, ASSOCIATION BRAND			
" Canada Peas, " " . Market	1-ply per sq 1.40			
" Wheat, Red, " " . Buckwheat, " " . Prices	2 ply per sq 1.75			
" Millet, " " .	3-ply per sq			
HOUSE, Shed Roof, each,	" 3 " 100 " " . 1.00			
" Suburban Portable, each, 25.00	" CAPS, Tin, per lb.,			
" Hare-Curtis Poultry, each, 20.00 Apex Poultry (no Runway), each 10.00	SHELTERS, Chick, 6 feet, 4.50			
" (with Runway), ea. 15.00	" 12 " 7.00 SHELLS, Oyster, per 100,			
" Cypher's Colony, each, 8.00	Special price for larger lots.			
HOPPERS, Dry Food, each, 75c., 1.00 KNIVES, Poultry Killing, each,	SULPHUR FUMIGATING CANDLES (see Can-			
LICE REMEDIES (see Powders.)	dles.) SPRAY PUMPS, for Spraying Whitewash,			
MARKERS, Philadelphia Poultry, each,25	each, \$3.00 and 4.50			
MILL, Green Bone (see Bone Cutters.)	SPRAYERS, Compressed Air, Galv. Iron, each, 2.50 to 5.00			
" Dry Bone and Shell (without stand) each, 5.00	SPRAYERS, 50c. to 1.00			
MILL, Dry Bone and Shell (with Stand),	STAPLES, Fence, per lb.,			
each, 7.00 MILL, Tennessee Grinding, each, 2.00	" Poultry Fence, per lb.,			
" (Extra Grinders for same), each,25	" " per dozen, 1.00			
" Oriole Farm and Grist, No. 2 1-2, each,	Add 20c. extra for postage.			
MILL, Balance Wheel Grist, each, 2.25	THERMOMETER, Incubator, each,			
MEDICAL AND SURGICAL CASE, Cy-	each,			
pher's Poultry, each, 3.00 MEDICAL CASE, Separate, each, 2.00	THERMOMETER, Brooder, ea			
SURGICAL " " " 1.50	TRAYS, Pedigree Egg, No. 2, per pair, . 4.00			
MOISTURE DEVICE, Automatic, each, . 1.50	" No. 3, " " . 4.75			
NEST WIRE, each,	TOBACCO STEMS, 10 lb., , .25 50 " 1.00			
NAPCREOL, 1 quart, each,	" " 100 " 2.0			
" 4 " " 1.50	TRAP NESTS, each, , 1.60			
NESTS, Earthen Pigeon, each, 15c.; doz., 1.75 PAINT, Lice, Lees (Liquid), 1 quart	WIRE POULTRY NETTING (see Fencing.) POULTRY FOOD			
" " 2 "	Pratt's, per pkg., 25c. and .50			
" " 1 gallon, 1.00	Lee's Egg Maker, per pkg., 25c. and 2.00 "Prolific, per pkg., 25c. and .90			
PHILADELPHIA POULTRY MARKER, .25	BIRD SEED AND SUPPLIES.			
POULTRY BOOKS (see Books.) POULTRY HOUSES AND FIXTURES	CANARY, 10c. per lb., . 3 for .25			
Plans for Practical Building and Equip-	HEMP, 10e. " " . 3 " .25			
ment (36 pages), (H),	MILLET 100 " " 3 " 95			
Get Them,	MAW, 20c. " " . 3 " .50 UNHULED RICE, . 10c. " " . 3 " .25			
Pigeons, all About Them. (Maj. Gilbert), 1.00 Poultry Craft, 1.50	SUNFLOWER SEED, 10c. " " , 3 " ,25			
Broilers and Roasters,	SHEPARD SONG RESTORER, per bottle, .25 MARSHALL'S " " " .25			
A Living from Poultry,	MOCKING BIRD, per bottle			
Cyphers Series, Nos. 1 to 6,	BIRD GRAVEL, 10c. pk., 3 for .25 CUTTLE BONE, per oz.,			
" No. 8,	PEPPER SEED, per oz., ,			
POWDER, Lambert's Lice, 5 oz.,				
" " 48 "	PIGEON AND DOVE SUPPLIES.			
" " 100 " 1.00 REMEDIES	CANADA PEAS, per bu.,			
Cyphers Poultry (Case complete), each, 2.00	YELLOW CORN. small kernels, per bu., KAFFIR CORN, per bu., Prices			
(Single Vials), each	MILLET, per bu.,			
ROUP CURE, Ebeling's Guaranteed,	HEMP, per lb.,			
" (Conkey's, 25c. 50c. and 1.00 " Rust's, 25c. and .50	100,			
ROOT CUTTERS (see Cutters.)	DOG BISCUIT, 1 lb., 10c.; 3 lbs., 25c			

